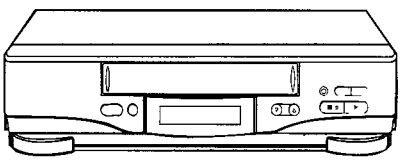
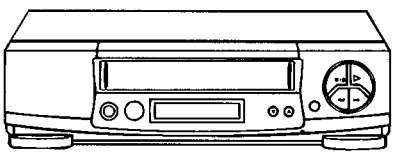
HITACHI

SERVICE MANUAL

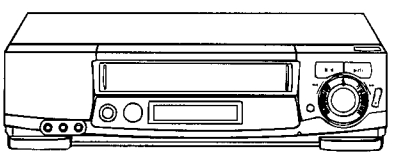
V21601



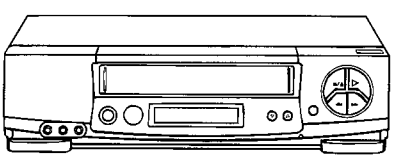
VT-FX750E(UKN)



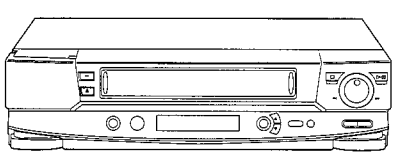
VT-FX75xE(VPS)(NA)



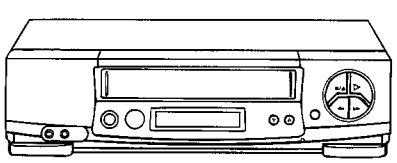
VT-FX760E



VT-FX765E



VT-FX770E



VT-MX730E

VHS

This video deck is a VHS type video recorder. For proper operation, only the VHS type cassette must be used.

TK | No.4806E

VT-FX750E(NA)(UKN)(VPS)
VT-FX751E/FX752E(VPS)
VT-FX760E(NA)(UKN)
VT-FX765E(UNK)
VT-FX770E(NAV)(UKN)
VT-MX730E(UK)

US MECHANISM

This service manual does not include information on the US Mechanism used in this model. Use this manual together with the following manual.

Manual related to the VT-FX75xE/FX76xE/FX770E/MX730E

Name of manual	Manual No.	Chapters Included
US Mechanism	4527E	------

VIDEO Plus+
VIDEO Plus+ DELUXE
SHOWVIEW
SHOWVIEW DELUXE

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

VIDEO CASSETTE RECORDER

June 1998 Image & Information Media Systems Division, Tokai

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts have special safety-related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for a higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified by marking with a ⚠ on the schematics and the parts list in this Service Manual. The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards. Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies for, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

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CHAPTER 1 GENERAL INFORMATION

SPECIFICATIONS

Format:	VHS PAL Standard
Recording:	Rotary Two-Head Helical Scan Azimuth Recording
Tape Speed:	23.39 mm/sec.--SP, 11.7 mm/sec.--LP
Tape Width:	12.7 mm
Operation Temperature:	5 ℃ TO 40 ℃
Video:	PAL colour (system I) & CCIR monochrome signals 625 lines [For UKN,UK]
	PAL colour (system B & G) & CCIR monochrome signals 625 lines [Except for UKN,UK]
Recording Time:	240 min. with E-240 cassette--SP
	480 min. with E-240 cassette--LP
Aerial input:	VHF channels 2--12
	CATV channels S1--S45] [Except for UKN, UK]
	CATV channels X--Z+2]
	UHF channels 21--69
RF Output:	UHF channels 35 (22--69 adjustable) (System I) [For UKN, UK]
	UHF channels 37 (22--69 adjustable) (System G) [Except for UKN, UK]
Video Input:	0.5 to 1.5 Vp-p 75 ohm Unbalanced
Video Output:	1 Vp-p 75 ohm Unbalanced
S/N Ratio (Video):	More than 43 dB
Horizontal Resolution:	Colour 260 lines

Audio (Linear)

Input:	PERI: -3.8 dBm 10 Kohm, LINE: -7.8 dBm 50 Kohm
Output:	PERI: -3.8 dBm 1 Kohm, LINE: -7.8 dBm 1 Kohm
S/N Ratio:	43 dB
Frequency Range:	70 Hz to 12 kHz

Hi-Fi Audio [Except for MX730E]

Frequency Range:	20 Hz to 20 kHz
Dynamic Range:	More than 90 dB
Wow and Flutter:	Less than 0.005% WRMS
RF Audio Reception:	NICAM Digital stereo (I-PAL) [For (UKN)]
	NICAM Digital stereo (B/G-PAL), IGR (A2) Stereo (B/G) [For (NA),(NAV),(VPS)]

Fast Forward/Rewind Time: 90secs. on S.FF or S.REW.

Fast Forward/Rewind Time: 90secs. on S.FF or S.REW. [For MX730E]

Power:	AC230V, 50 Hz
Power Consumption:	18 W (including timer)] [For MX730E]
	3.1 W (standby mode)]
	21 W (including timer)] [Except for FX770E/MX730E]
	3.3 W (standby mode)]
	22 W (including timer)] [For FX770E]
	3.9 W (standby mode)]
Timer:	24-hour digital indication
Cabinet Size:	380 mm (W) × 93 mm (H) × 275 mm (D) [Except for FX760E(UKN)/FX770E]
	380 mm (W) × 93 mm (H) × 279 mm (D) [For FX760E(UKN)]
	435 mm (W) × 98 mm (H) × 282 mm (D) [For FX770E]
Weight:	Approx.. 3.5 kg [Except for FX770E]
	Approx.. 4.3 kg [For FX770E]
Accessories Included:	1--Aerial cable
	1--Infrared remote control handset
	2--Batteries

* Design and specifications are subject to change without notice.

COMPARISON OF FEATURES

	ITEM	VT-FX75xE/FX76xE/FX770E/MX730E	VT-F55xE/F64xE/F650E/F660E
GENERAL	VIDEO HEADS	DA4 Heads + Hi-Fi (Except for MX730E) DA4 Heads (For MX730E) SP : 48 µm LP : 24 µm Hi-Fi : 28 µm	DA4 Heads + Hi-Fi SP : 48 µm LP : 24 µm Hi-Fi : 28 µm
	BASIC CHASSIS TYPE	US	US
	CAPSTAN DRIVE	DIRECT DRIVE	DIRECT DRIVE
	CYLINDER MOTOR	THREE-PHASE OUTER ROTOR : 360Hz	THREE-PHASE OUTER ROTOR : 360Hz
VIDEO	PAL COLOUR	B/G (Except for UKN,UK) I (For UKN,UK)	B/G (Except for UKN) I (For UKN)
	MESECAM COLOUR	YES (For FX770E)	YES (For F660E)
TUNER	TUNING SYSTEM	F.S TUNING	F.S TUNING
	CATV	YES (Except for UKN,UK)	YES (Except for UKN)
	CHANNEL PRESET No.	49CH	49CH
	RF CONVERTER	B/G (Except for UKN,UK) I (For UKN,UK)	B/G (Except for UKN) I (For UKN)
	RF CONV. CHANNEL (32-42)	37 (Except for UKN,UK) 35 (For UKN,UK)	37 (Except for UKN) 35 (For UKN)
	A2	YES (Except for UKN,UK)	YES (Except for UKN)
	UK NICAM	YES (For UKN)	YES (For UKN)
	CT NICAM	YES (For NA,NAV)	YES (For NA,NAV)
TIMER	REC. PROGRAMME	8 PROG./1 YEAR	8 PROG./1 YEAR
	DIMMER	YES (AUTO)	YES (AUTO)
	IRT	LENGTH ONLY (For FX770E)	LENGTH ONLY (For F660E)
	BACK-UP TIME	ABOUT 30 MIN.	ABOUT 30 MIN.
	PDC	YES (Except for VPS)	YES (Except for VPS)
	VPS	YES (Except for NA)	YES (Except for NA)
OTHER FEATURES	AUTO HEAD CLEANING	YES	YES (Except for F640E)
	POWER SAVE	YES	YES
	EDIT IN/OUT JACK	NO	NO
	TAPE SPEED	SP/LP	SP/LP
	VIDEO DUB	NO	YES (For F660E)
	AUDIO DUB	NO	YES (MONAURAL) (For F660E)
	X2 PLAY	NO	NO
	SLOW/REV.SLOW PLAY	YES	YES
	F.ADV PLAY	YES	YES
	SATELLITE CONTROL	YES (For FX770E/FX765E,FX760E)	YES (For F645E/F650E/F660E)
	SHUTTLE RING	YES (For FX770E/FX760E)	YES (For F650E/F660E)
	JOG DIAL	YES (For FX770E)	YES (For F660E)
	NTSC PLAYBACK	YES (For FX770E)	YES (For F660E)
	FRONT A/V INPUT JACK	YES (Except for FX75xE)	YES (Except for F640E)
	COUNTER GO-TO	NO	NO
	TITLE INDEX	NO	NO
	TROUBLE MODE	YES	YES
	TAPE NAVIGATION	YES (For FX770E)	NO
	CLOSED CAPTION	YES (For FX770E)	NO
AUTO FEATURES	AUTO TRACKING	YES	YES
	AUTO OPERATE ON	YES	YES
	AUTO PLAY	YES	YES
	AUTO REWIND	YES	YES
	AUTO REW.SHUT OFF	YES	YES
	AUTO INSTALL	YES (For UKN,UK)	NO
	AUTO SEEK	YES (For UKN,UK)	NO
	AUTO TAPE CANCELLER	YES	YES
REMOTE CONTROL	PROGRAMME SETTING	LCD (For FX770E)	LCD (For F660E)
	CLOCK SETTING	LCD (For FX770E)	LCD (For F660E)
	VCR1/VCR2/TV	YES (For FX770E)	YES
	SHOW VIEW	YES (Except for UKN,UK)	YES (Except for UKN)
	VIDEO PLUS+	YES (For UKN,UK)	YES (For UKN)

COMPARISON OF MAIN CONTROL ICs

ITEM	VT-FX75xE/FX76xE/FX770E/MX730E	VT-F55xE/F64xE/F650E/F660E
VIDEO SYSTEM		
Y/CHROMA PROCESS	HA118211F (IC0201)	HA118203F (IC0201)
CCD DELAY	Included in IC201	MSM7470-71MS (IC0202)
PRE/REC AMP		
AUDIO HEAD AMP	AN3329S (IC1102)	LA7256 (IC1102)
VIDEO HEAD AMP	Included in IC201	HA118198F (IC1101)
AUDIO		
FM AUDIO PROCESS	AN3964FB (IC0501)	AN3964FB (IC0501)
MAIN CONTROL		
MAIN µP (system control µP)	HD6433977SC10F or 14F [FX75xE/FX76xE(UKN)] HD6433977SC11F [VPS,NA] HD6433977SC13F [FX770E] HD6433977SC14F [MX730E] (IC0901)	HD6433977SB54F [F55xE/F640E] HD6433977SB55F [F660E] HD6433977SB56F [F645E/F650E] (IC0901)
EEPROM	ST24C02 6 [FX770E] ST24C04 [Except for FX770E] (IC0903)	ST24C02 (IC0903)
TAPE LOADING DRIVE	BA6209 (IC0904)	BA6209 (IC0904)
SERVO CONTROL	Included in Main µp	Included in Main µp
NICAM (Except for VPS)		
NICAM DECORDER	TDA9874H (IC1801)	SAA7283GP (IC1801)
DUAL OPE. AMP	NJM4558M (IC1802)	NJM4558M (IC1802)
A2 (For VPS)		
ST/DUAL SOUND PROCESSOR	TDA9840T (IC1871)	TDA9840T (IC1851)
FM DEMODULATOR	TDA9821 (IC1872)	TDA9821 (IC1852)
PDC/VPS		
PDC/VPS DECODER	SDA5650 or SDA5649 (IC4581)	SDA5649 or SDA5649 (IC4581)
POWER SUPPLY		
SWITCHING DRIVER	STR-F6653 (IC0851)	FS3KM-18A (Q0851)
REAR JACK		
AUDIO SW	LA7151 (IC4551)	LA7151 (IC4551)
VIDEO SW	BH7633AS (IC4501)	BH7633AS (IC4501)
TAPE NAVIGATION (For FX770E)		
CCD µP (NAVI control)	M37272M8-117SP (IC4301)	----------
OSD	MB90089-214FP (IC4101)	----------
E^2P ROM	AT24C16 (IC4302)	----------
RESET	RN5V545AA (IC4303)	----------
SYNC SEPARATER	MM1108XFFE (IC4304)	----------
VIDEO SW	NJM2249M (IC4103)	----------
VIDEO SW	NJM2535M (IC4102)	----------

TROUBLE DISPLAY FUNCTION

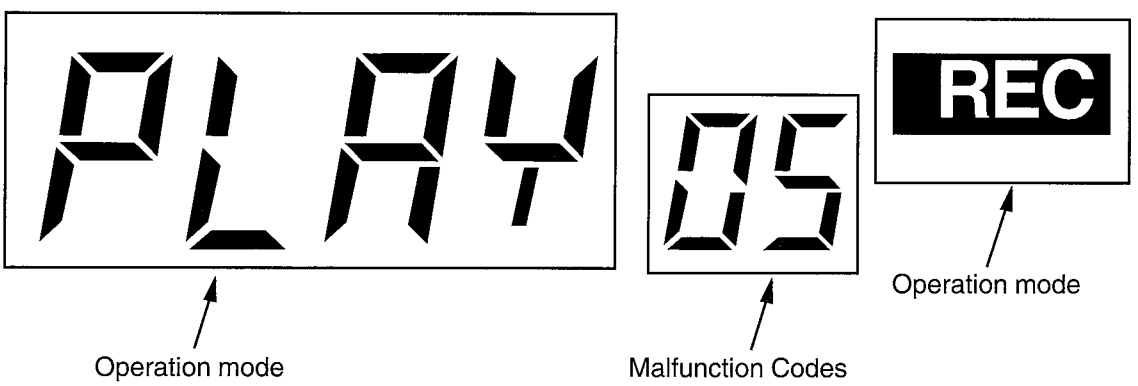
This VCR has a function which displays mechanism malfunctions, etc. in the LCD display. Use this function to analyze the cause when the power is shut off due to a malfunction, etc. in the mechanism.
Two types of information are displayed, 1) The operation mode when the malfunction occurred, 2)Malfunction Codes.

The details of the malfunction are displayed as follows.

PROCEDURE TO DISPLAY A MALFUNCTION

Press the (CH ▼) button on the VCR when the power is turned off and hold it; the malfunction code is displayed while the button is held depressed.

LCD DISPLAY



【Display of details of malfunction】

Displayed No.	Item	Details
" 0 0 "	No malfunction	
" 0 1 "	FL mechanism lock	Malfunction in insertion/ejection of cassette
" 0 2 "	Capstan lock unloading	Malfunction of capstan motor drive during tape
" 0 4 "	Reel lock	Reel rotation trouble when tape is running
" 0 6 "	Cylinder lock	Cylinder rotation malfanction
" 0 7 "	Loading mechanism lock	Malfunction in shifting mechanism mode
" 1 6 "	Servo lock	Shorting of 5V detected

【Mode Display when Malfunction Has Occurred】

Mode	Display	Mode	Display
Stop	No Display	Playback	PLAY
Fast forward	FF	Reverse playback	−PLAY
Rewind	REW	Forward search	SRCH
Hight speed fast forward	FF	Reverse search	−SRCH
Hight speed rewind	REW	Slow motion play	SLOW
Recording	REC	Reverse motion slow play	−SLOW
Recording pause	REC (flashes)	Still motion play	STILL

No symbols are displayed if the malfunction occurred when a cassette was inserted or ejected, or the power was switched on from off, and off from on.

How to Remove the Cassette when a Malfunction Has Occurred in the Mechanism

If a cassette is caught in the mechanism because of a malfunction in the mechanism, remove it by the following procedure.

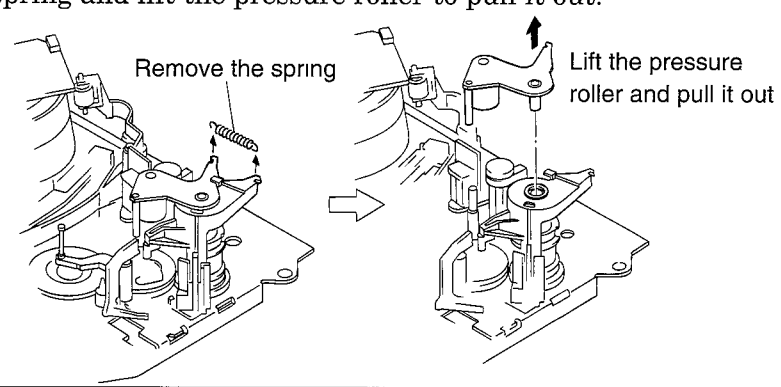
〔Work Procedure〕

1. Remove the top cover.
2. Remove the front panel.

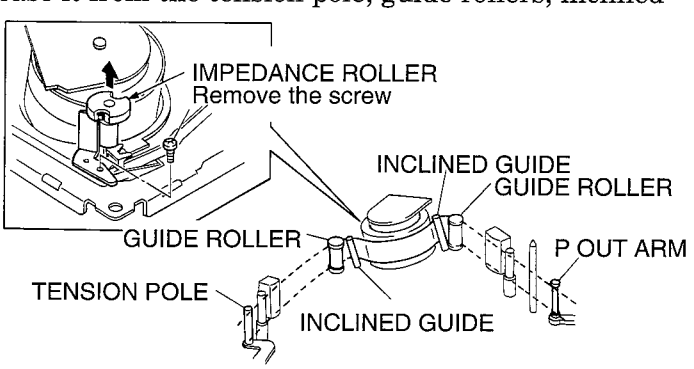
If the tape is wound round the cylinder in the loading state

If the cassette dose not come out from the FL mechanism in the unloading state.

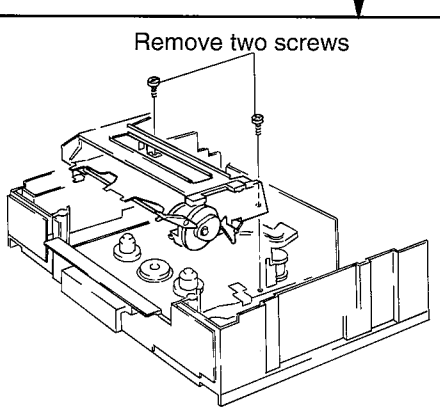
Remove the spring and lift the pressure roller to pull it out.



Slacken the tape and release it from the tension pole, guide rollers, inclined guides and P out arm.

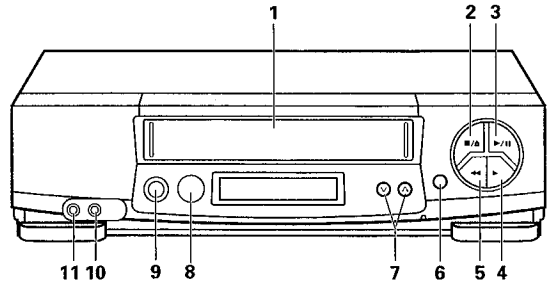


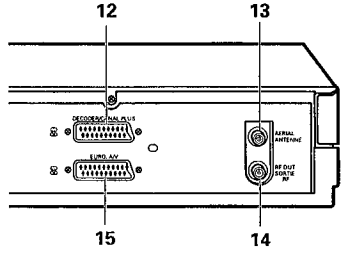
1) Remove two screws holding the FL mechanism.
2) Hold the cassette lid with your fingers so the tape is not damaged and remove the FL mechanism.
3) Remove the slack tape and eject the cassette.

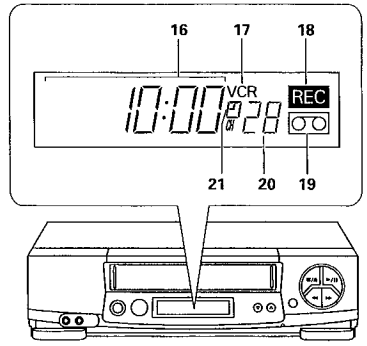


CUSTOMER CONTROLS

VCR Customer Controls





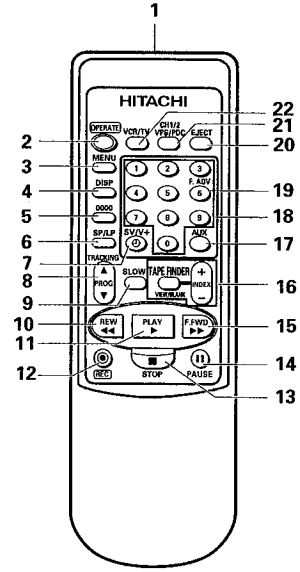


Item No	Function	Page
1	Cassette compartment	20
2	STOP/EJECT button	23
3	PLAY/STILL button	22
4	F FWD button	–
5	REW button	–
6	REC button	25
7	PROG (programme up/down) buttons	11
8	Remote control receiving window	9
9	OPERATE (Operate/Standby) button	2
10	AUDIO IN (L-mono)	41
11	VIDEO IN socket	41
12	Decoder socket	43
13	AERIAL — signal input	6
14	RF OUT — signal out to TV	6
15	Scart socket	7
	VCR Display	
16	Time,	19
	Time counter or	36
	VCR mode indicator	22
	PLAY — playback	22
	SRCH — visual search	23
	SLOW — slow play	22
	REW — rewind	23
	S:REW — high speed rewind	23
	FF — fast forward	23
	S:FF — high speed fast forward	23
	STILL — play pause and frame advance	22
17	VCR, operate mode	22
18	REC — record (flashes during record pause)	25
19	Tape-in indicator	20
20	TV programme number or	25
	Auxiliary (L1/L2/L3)	41
21	Timer indicator	27

"–" appears during reverse direction viewing

CUSTOMER CONTROLS

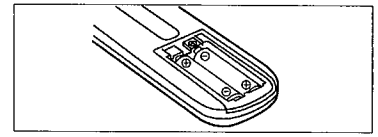
Remote Control Handset Customer Controls



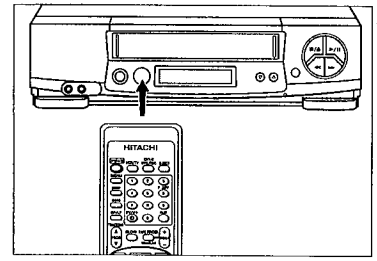
Item No.	Function	Page
1	Transmission window	9
2	OPERATE—switch between operate and standby mode	27
3	MENU — to recall OSD menu	39
4	DISP —to recall on-screen display, change VCR's display	40
5	0000 —to correct an incorrect digit, reset the time counter when it appears in the VCR's display	19 36
6	SP/LP—changes tape speed during record	20
7	V+ — VIDEO Plus+ programming	28
8	PROG (programme up ▲ /down ▼) button TRACKING button	11 24
9	SLOW button — press during playback to view slow motion picture	22
10	REW — fast rewind or search	23
11	PLAY — playback	22
12	REC — record button	25
13	STOP — stops play/record function	26
14	PAUSE — pause or still	22
15	F FWD — fast forward or search	23
16	TAPE FINDER buttons — used for Index search, Easy View and Blank Search Function	37
17	AUX button — select L1,L2 or L3 input	41
18	Number buttons	19
19	F ADV button — advance the picture by one frame during still playback	22
20	EJECT button — press to eject a cassette	20
21	CH1/2 NOT APPLY FOR VT-MX730E(UK) PDC button	— 49
22	VCR/TV select button	22

REMOTE OPERATION

Power source of infrared remote control handset



The infrared remote control handset is powered by two batteries (size IEC standard R6) The life of the batteries is about a year although this depends on the number of times the handset is used
Replace the batteries when operation is not possible or when the operating distance becomes too small
Note: When replacing the batteries, remove the used batteries and press the OPERATE button and hold it pressed for 10 seconds, then insert the new batteries



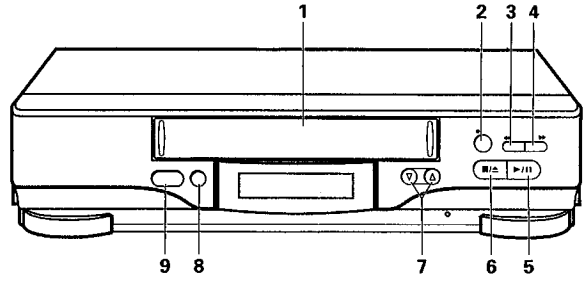
Remote operations

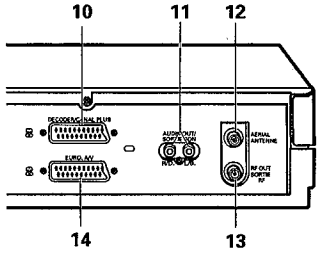
To operate this VCR with the remote control handset, point the remote control handset at the receiver on the front of the VCR

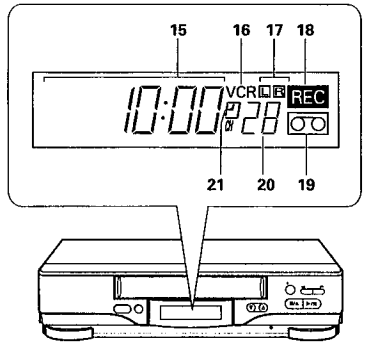
CUSTOMER CONTROLS

CUSTOMER CONTROLS

VCR Customer Controls

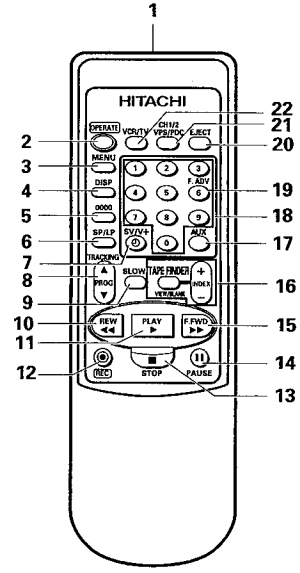






Item No.	Function	Page
1	Cassette compartment	20
2	REC button	25
3	Rewind button	23
4	Fast forward button	23
5	PLAY /STILL button	22
6	STOP/EJECT button	23
7	PROG (programme up/down) buttons	12
8	Remote control receiving window	9
9	OPERATE (Operate/Standby) button	2
10	Decoder socket	45
11	AUDIO OUT (L), (R) sockets for stereo system connection	43
12	AERIAL — signal input	6
13	RF OUT — signal out to TV	6
14	Scart socket	7
	VCR Display	
15	Time,	19
	Time counter or	37
	VCR mode indicator	22
	PLAY— playback ("►" appears during reverse direction viewing)	22
	SRCH— visual search	23
	SLOW— slow play	22
	REW — rewind	23
	S:REW—high speed rewind	23
	FF — fast forward	23
	S:FF — high speed fast forward	23
	STILL— play pause and frame advance	22
16	VCR, operate mode	22
17	Audio indicators	24
18	REC — record (flashes during record pause)	25
19	Tape-in indicator	20
20	TV programme number or	26
	Auxiliary (L1/L2)	43
21	Timer indicator	28

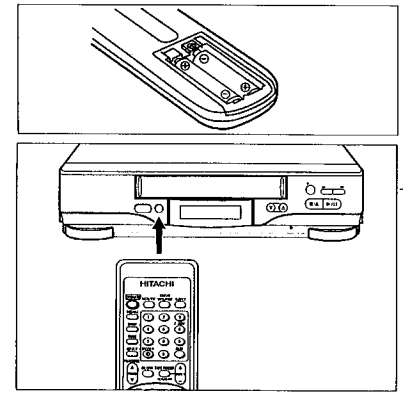
Remote Control Handset Customer Controls



Item No.	Function	Page
1	Transmission window	9
2	OPERATE—switch between operate and standby mode	28
3	MENU — to recall OSD menu	40
4	DISP — to recall on-screen display, change VCR's display	41
5	0000 — to correct an incorrect digit, reset the time counter when it appears in the VCR's display	19 37
6	SP/LP — changes tape speed during record	20
7	V+ — VIDEO Plus+ programming	29
8	PROG (programme up ▲/down ▼) button TRACKING button	12 24
9	SLOW button— press during playback	22
10	REW — fast rewind or search	23
11	PLAY — playback	22
12	REC — record button	25
13	STOP — stops play/record function	23
14	PAUSE — pause or still	22
15	F FWD — fast forward or search	23
16	TAPE FINDER button used for Index Search, Easy View and Blank search function	38
17	AUX button — select L1 or L2 input	43
18	Number buttons	19
19	F ADV button — advance the picture by one frame during still playback	22
20	EJECT button — press to eject a cassette	20
21	CH1/2 button VPS/PDC button	26 52
22	VCR/TV select button	22

REMOTE OPERATION

Power source of infrared remote control handset



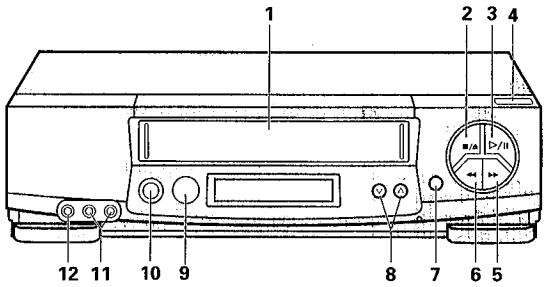
The infrared remote control handset is powered by two batteries (size IEC standard R6). The life of the batteries is about a year although this depends on the number of times the handset is used
Replace the batteries when operation is not possible or when the operating distance becomes too small
Note: When replacing the batteries, remove the used batteries and press the OPERATE button and hold it pressed for 10 seconds, then insert the new batteries

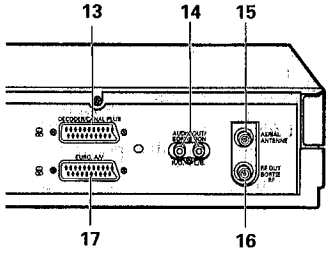
Remote operations

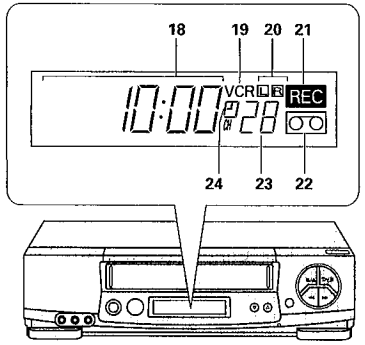
To operate this VCR with the remote control handset, point the remote control handset at the receiver on the front of the VCR

CUSTOMER CONTROLS (VT-FX765E(UKN) ONLY)

VCR Customer Controls



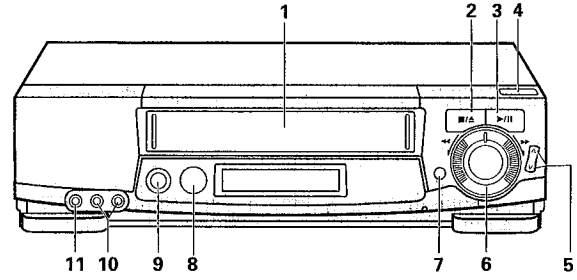


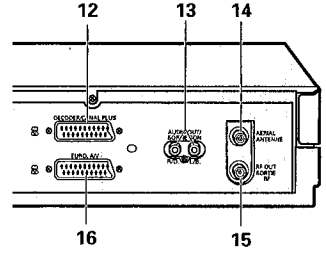


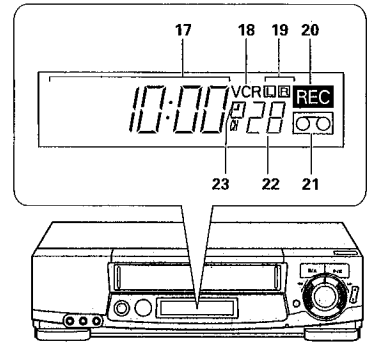
Item No	Function	Page
1	Cassette compartment	21
2	STOP/EJECT button	24
3	PLAY/STILL button	23
4	Infrared transmitter	49
5	F FWD button	–
6	REW button	–
7	REC button	27
8	PROG (programme up/down) buttons	14
9	Remote control receiving window	10
10	OPERATE (Operate/Standby) button	2
11	AUDIO IN (L-mono),(R) sockets	45
12	VIDEO IN socket	45
13	Decoder socket	47
14	AUDIO OUT (L), (R) sockets for stereo system connection	–
15	AERIAL — signal input	6
16	RF OUT — signal out to TV	6
17	Scart socket	7
	VCR Display	
18	Time,	20
	Time counter or	39
	VCR mode indicator	23
	PLAY— playback	23
	SRCH— visual search	24
	SLOW— slow play	23
	REW — rewind	24
	S:REW—high speed rewind	24
	FF — fast forward	24
	S:FF — high speed fast forward	24
	STILL— play pause and frame advance	23
	("–" appears during reverse direction viewing)	
19	VCR, operate mode	23
20	Audio indicators	25
21	REC — record (flashes during record pause)	27
22	Tape-in indicator	21
23	TV programme number or Auxiliary (L1/L2/L3)	27 45
24	Timer indicator	30

CUSTOMER CONTROLS (VT-FX760E(UKN) ONLY)

VCR Customer Controls



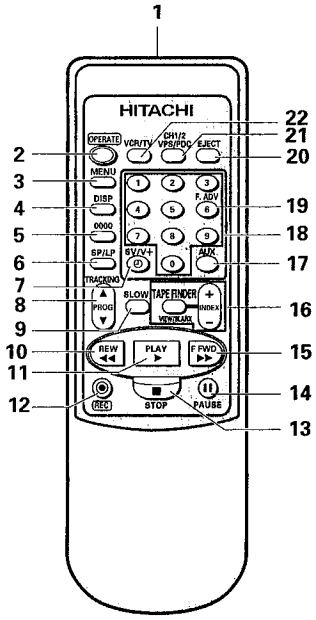




Item No	Function	Page
1	Cassette compartment	21
2	STOP/EJECT button	24
3	PLAY/STILL button	23
4	Infrared transmitter	49
5	PROG (programme up/down) buttons	14
6	Shuttle ring	26
7	REC button	27
8	Remote control receiving window	10
9	OPERATE (Operate/Standby) button	2
10	AUDIO IN (L-mono),(R) sockets	45
11	VIDEO IN socket	45
12	Decoder socket	47
13	AUDIO OUT (L), (R) sockets for stereo system connection	–
14	AERIAL — signal input	6
15	RF OUT — signal out to TV	6
16	Scart socket	7
	VCR Display	
17	Time,	20
	Time counter or	39
	VCR mode indicator	23
	PLAY— playback	23
	SRCH— visual search	24
	SLOW— slow play	23
	("–" appears during reverse direction viewing)	
	REW — rewind	24
	S:REW—high speed rewind	24
	FF — fast forward	24
	S:FF — high speed fast forward	24
	STILL— play pause and frame advance	23
18	VCR, operate mode	23
19	Audio indicators	25
20	REC — record (flashes during record pause)	27
21	Tape-in indicator	21
22	TV programme number or Auxiliary (L1/L2/L3)	27 45
23	Timer indicator	30

CUSTOMER CONTROLS (COMMON FOR VT-FX760E and VT-FX765E)

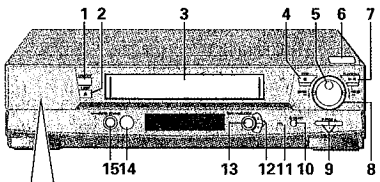
Remote Control Handset Customer Controls

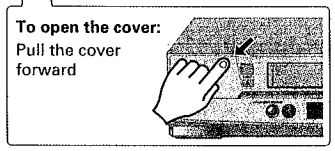


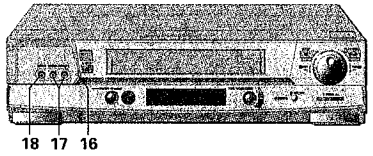
Item No.	Function	Page
1	Transmission window	10
2	OPERATE—switch between operate and standby mode	30
3	MENU — to recall OSD menu	42
4	DISP —to recall on-screen display, change VCR's display	43
5	0000 —to correct an incorrect digit, reset the time counter when it appears in the VCR's display	20 39
6	SP/LP—changes tape speed during record	21
7	V+ — VIDEO Plus+ programming	31
8	PROG (programme up ▲ /down ▼) button TRACKING button	13 25
9	SLOW button — press during playback to view slow motion picture	23
10	REW — fast rewind or search	24
11	PLAY — playback	23
12	REC — record button	27
13	STOP — stops play/record function	24
14	PAUSE — pause or still	23
15	F FWD — fast forward or search	24
16	TAPE FINDER buttons — used for Index search, Easy View and Blank Search Function	40
17	AUX button — select L1,L2 or L3 input	34
18	Number buttons	20
19	F ADV button — advance the picture by one frame during still playback	23
20	EJECT button — press to eject a cassette	21
21	CH1/2 button PDC button	25 59
22	VCR/TV select button	23

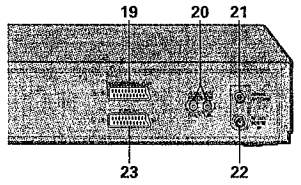
CUSTOMER CONTROLS

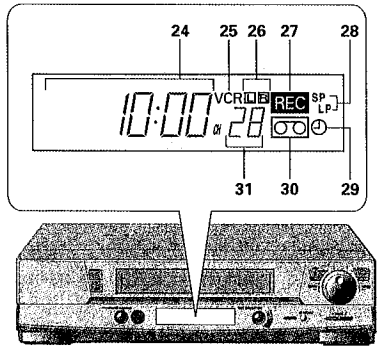
VCR Customer Controls





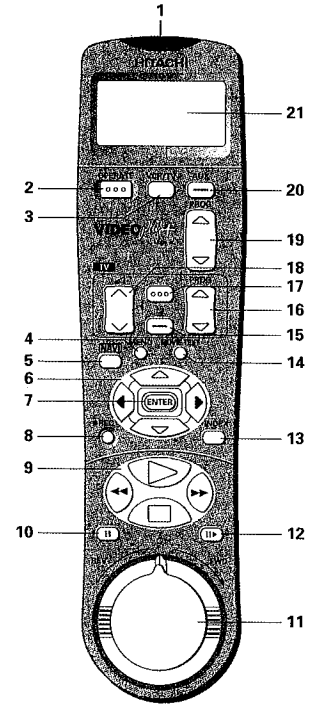


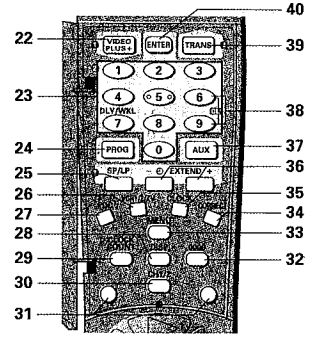




Item No.	Function	Page
1	OPERATE (Operate/Standby) button	2
2	EJECT button	21
3	Cassette compartment	21
4	STOP button	24
5	Jog dial	26
6	Infrared transmitter	62
7	PLAY/STILL button	23
8	Shuttle ring	26
9	PROG (programme up/down) buttons	13
10	REC/IRT button	27
11	REC (record) indicator — lights during recording (including timer recording and IRT) and recording pause	
12	Tape navigation programme select up/down buttons	40
13	TAPE NAVIGATION button	40
14	Remote control receiving window	10
15	SUPER REWIND button	24
16	Reset switch	71
17	AUDIO IN (L-mono),(R) sockets	56
18	VIDEO IN socket	56
19	Decoder socket	60
20	AUDIO OUT (L), (R) sockets for stereo system connection	–
21	AERIAL — signal input	6
22	RF OUT — signal out to TV	6
23	Scart socket	7
	VCR Display	
24	Time, / Time counter or / VCR mode indicator / PLAY —playback ("–" appears during reverse direction viewing)	20 / 48 / 23 / 23
	SRCH —visual search	23
	SLOW —slow play	23
	REW —rewind	24
	S:REW—high speed rewind	24
	FF —fast forward	24
	S:FF —high speed fast forward	24
	STILL —play pause and frame advance	23
25	VCR, operate mode	23
26	Audio indicators	25
27	REC —record (flashes during record pause)	27
28	Tape speed SP/LP	27
29	Timer indicator	31
30	Tape-in indicator	21
31	TV programme number or Auxiliary (L1/L2/L3)	27 / 56

Remote Control Handset Customer Controls





Item No.	Function	Page
1	Transmission window	10
2	OPERATE — switch between operate and standby mode	31
3	VCR/TV select button	23
4	MENU — to recall OSD menu	51
5	NAVI button	40
6	Cursor buttons	13
7	ENTER button	13
8	REC — record button	27
9	Tape transport button ▷ — playback ◀◀ — fast rewind or search ▶▶ — fast forward or search □ — stops play/record function	23
10	Pause/still button	23
11	Shuttle knob	26
12	Frame advance during still	23
13	INDEX button — INDEX feature	50
14	MOVIE TEXT button	47
15	TV mute button (Buttons used exclusively to operate the TV)	68
16	TV PROG button	68
17	TV Operate button	68
18	TV volume buttons	68
	Note: Four buttons 15 – 18 are used only when operating the TV	
19	PROG (programme up/down) button	13
20	AUX button — select L1, L2 or L3 input	56
21	Display clock/timer programme information	20
22	VIDEO Plus+ programming	32
23	Number buttons	20
24	PROG — to enter timer programme information	35
25	SP/LP — changes tape speed during record	21
26	VCR1/2/TV select button	10
27	PDC button	75
28	DISP — to recall on-screen display	49
29	CLOCK/COUNT — changes VCR display	48
30	CH1/2 button	25
31	These buttons are not used	—
32	0000 — clears time counter	48
33	MENU — to recall OSD menu	51
34	CORRECT button	20
35	CLOCK — enter or correct time on handset	20
36	EXTEND (– or +)	32
37	AUX — to select L1, L2 or L3 input	35
38	CL buttons — mode lock	49
39	TRANS button — transmits data	33
40	ENTER button — to enter PlusCode number	32

CHAPTER 2 DISASSEMBLY

- VT-FX75xE/FX76xE/MX730E -

1. Before Starting Disassembly

1) Unplug the power cord from the AC outlet.
2) [Removal procedure]
   If a special procedure is required when dismantling any component, it is indicated using numbers. Follow the numbers ((1),(2),(3) ...) shown in the illustrations.
   [Reinstallation procedure]
   Reinstall each component in the reverse order to removal when otherwise not specified.
3) Insert card connectors securely all the way as they are of the direct insertion type.

Identifications of Circuit Boards

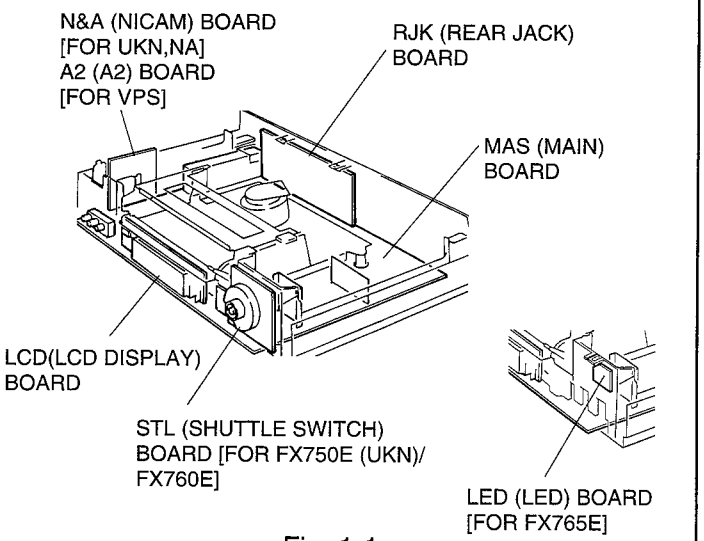


Fig. 1-1

2.Disassembly Method

When replacing defective parts, first refer to the "Parts hierarchy chart" shown below. This chart shows the procedure for parts removal when replacing defective parts.

[How to use the parts hierarchy chart]
(1) Locate the part to be replaced.
(2) Check the parts in the ranks above the part to be replaced and start dismantling.
(3) Replace the defective part and reinstall the parts in the reverse order to that shown in the parts hierarchy chart.

Parts Hierarchy Chart

Note: Dismantle parts in the eject state.

Parts to remove	Item	Parts to remove	Item
Top cover	2-1		
Front panel	2-1	Cassette door	2-2
		Buttons	2-2
		STL or LED board	2-3
		Front frame	2-4
		LCD board	2-4
Rear panel	2-1	RJK board	2-1
US-FL mechanism	2-1		
US mechanism/ MAS board assembly	2-5	US mechanism	2-6
N&A or A2 board	2-5		

Item	Parts to remove
2-1	Top cover, front panel, rear panel,RJK board and US-FL mechanism

◆ Caution when reinstalling the US-FL mechanism

Reinstall the US-FL mechanism in the state that the cassette holder is pulled forward.
(Otherwise, the switch arm could damage the FL switch on the MAS board.)

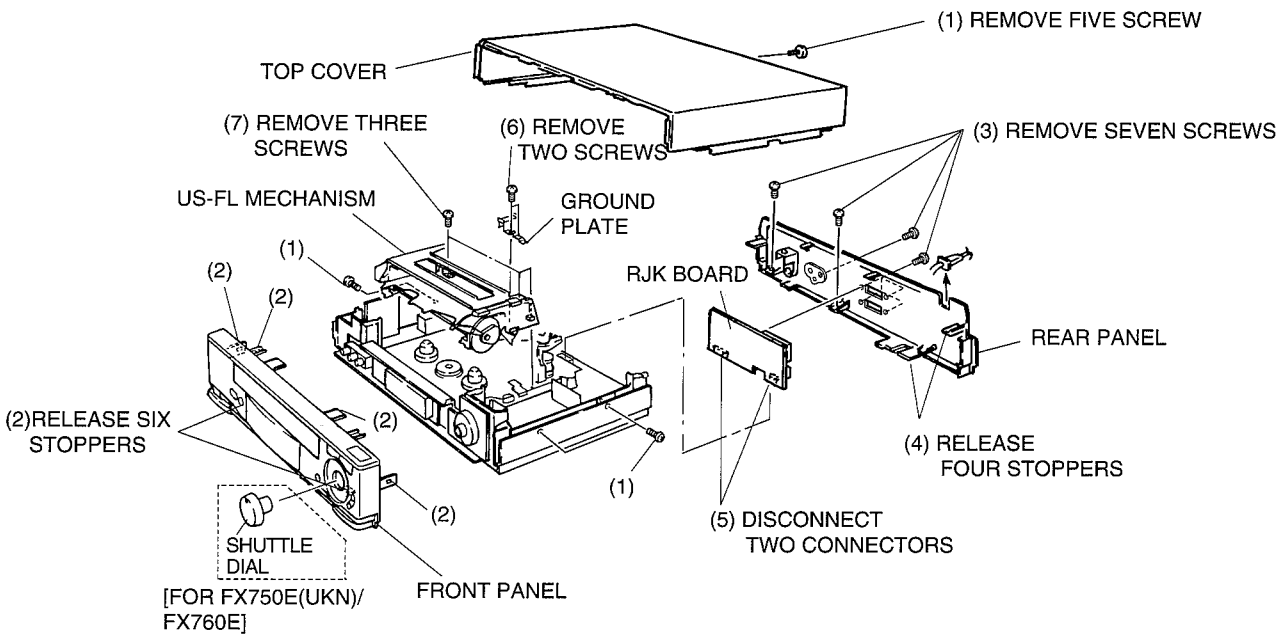
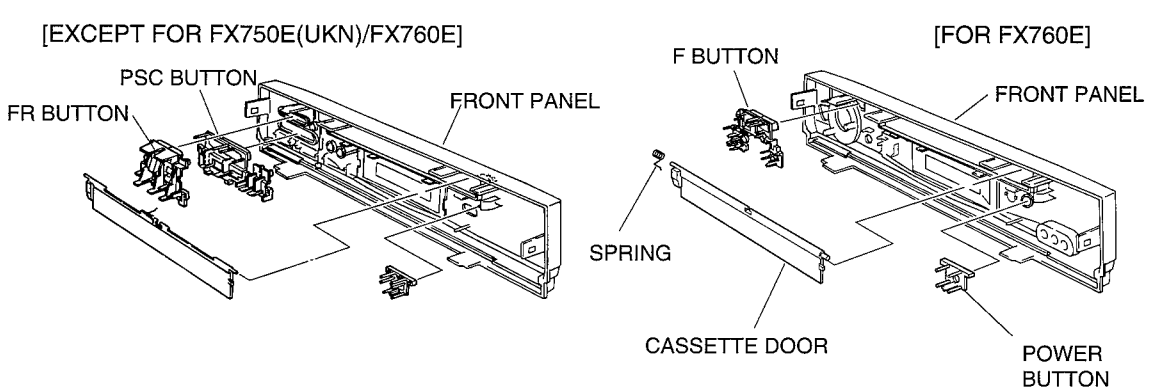


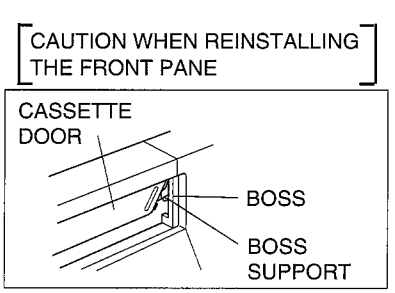
Fig. 2-1

2-2	Cassette door and buttons

◆ Caution when reinstalling the front panel

Reinstall the front panel in the state the cassette door is pushed so the boss of the door arm comes to the front of the boss support of the cassette door.





[FOR FX750E(UKN)]

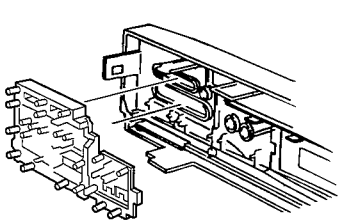
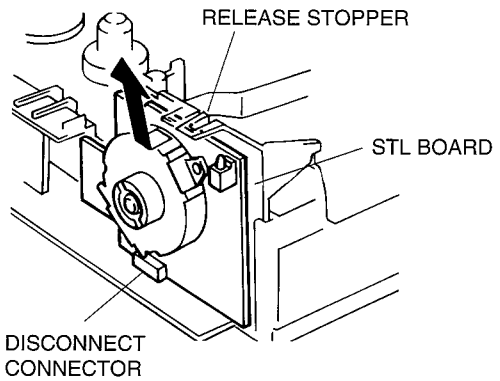


Fig. 2-2

Item	Parts to remove		
2-3	STL or LED board	2-4	Front frame and LCD board

[FOR F750E(UKN)/FX760E]



[FOR FX765E]

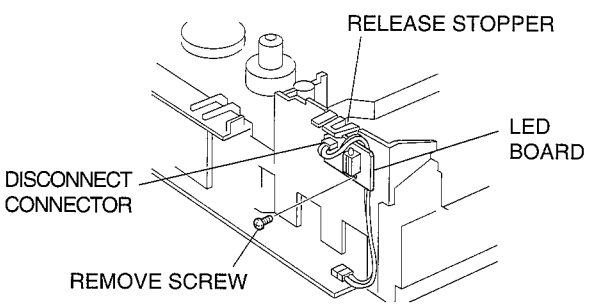


Fig. 2-3

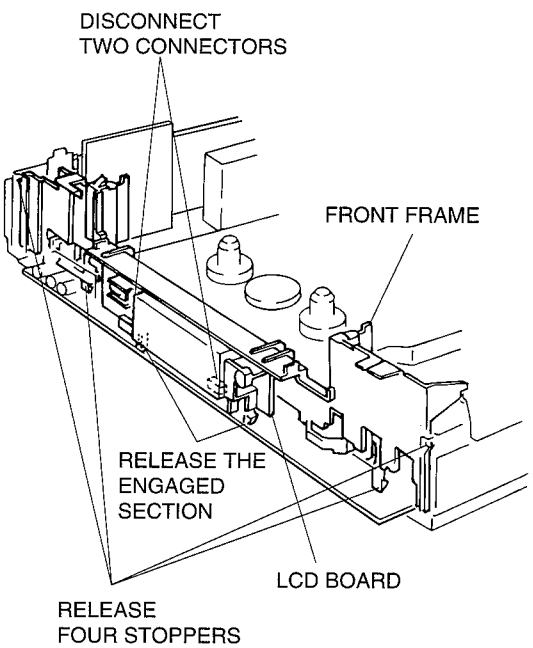


Fig. 2-4

2-5	US mechanism/MAS board assembly and N&A or A2 board

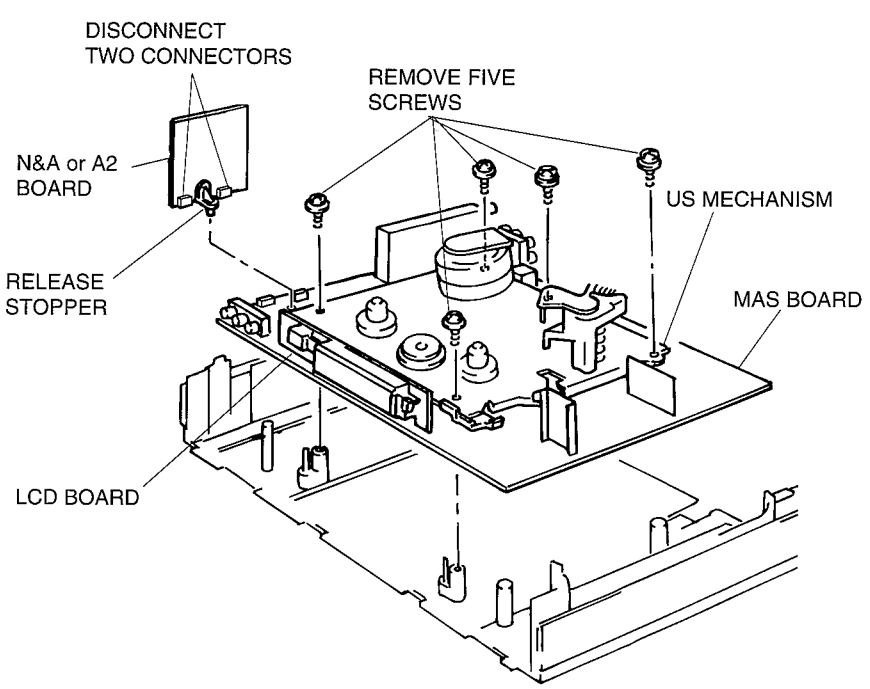


Fig. 2-5

Item	Parts to remove
2-6	Separation of MAS board from US mechanism

[Rear of the mechanism]

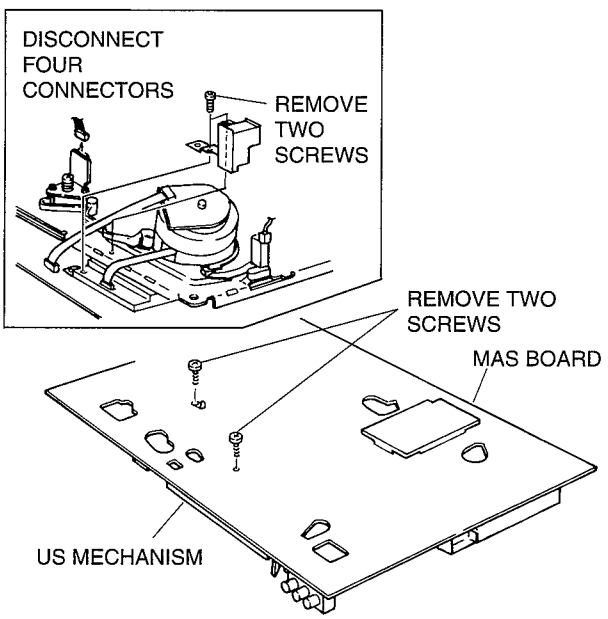


Fig. 2-6

Procedure to remove only the US mechanism

With this VCR the US mechanism can be removed without removing the MAS board. This is done by a different method from the normal disassembly method.

Parts to remove	Item
Top cover	2-1
⇩	
Front Panel	2-1
⇩	
US-FL mechanism	2-1
⇩	
Remove two screws on the bottom of the VCR.	2-7
⇩	
Remove five screws holding the US mechanism.	2-7

2-7	Procedure to remove only the US mechanism

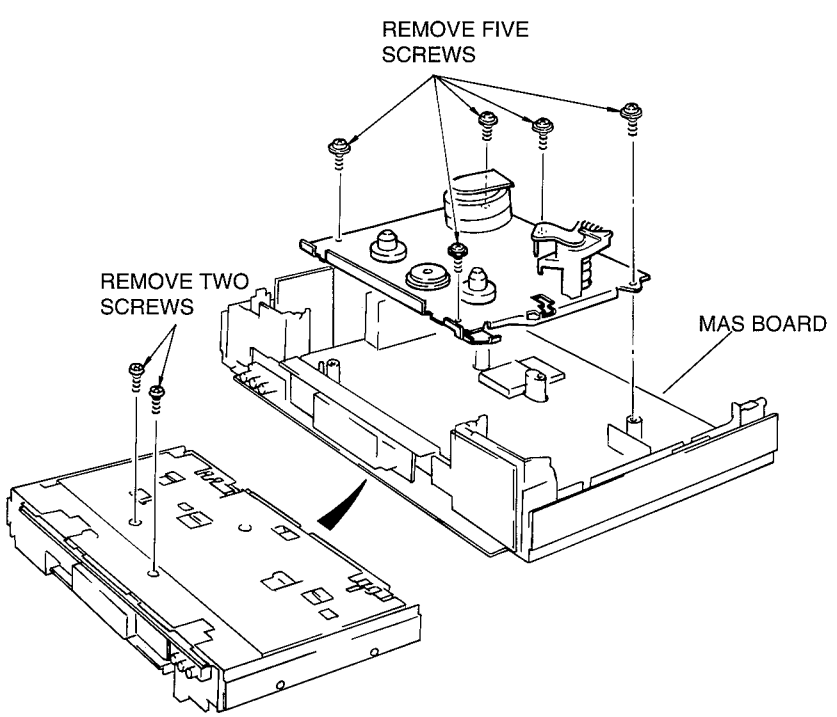


Fig. 2-7

- VT-FX770E -

1. Before Starting Disassembly

1) Unplug the power cord from the AC outlet.
2) [Removal procedure]
If a special procedure is required when dismantling any component, it is indicated using numbers. Follow the numbers ((1),(2),(3) ...) shown in the illustrations.
[Reinstallation procedure]
Reinstall each component in the reverse order to removal when otherwise not specified.
3) Insert card connectors securely all the way as they are of the direct insertion type.

Identifications of Circuit Boards

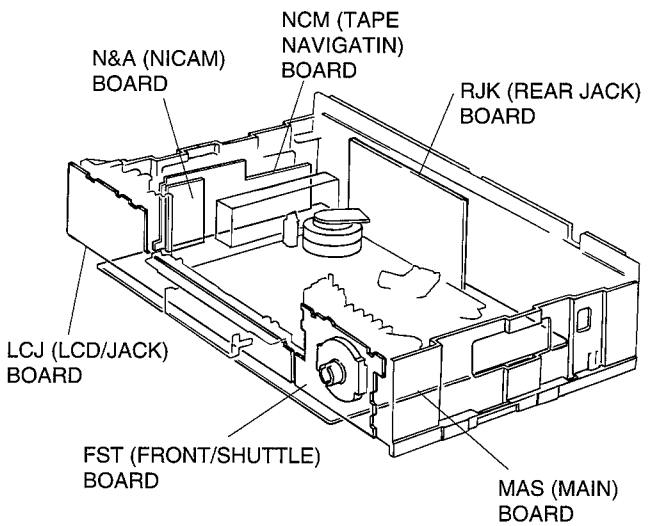


Fig.1-1

2.Disassembly Method

When replacing defective parts, first refer to the "Parts hierarchy chart" shown below. This chart shows the procedure for parts removal when replacing defective parts.

[How to use the parts hierarchy chart]
(1) Locate the part to be replaced.
(2) Check the parts in the ranks above the part to be replaced and start dismantling.
(3) Replace the defective part and reinstall the parts in the reverse order to that shown in the parts hierarchy chart.

Parts Hierarchy Chart

Note: Dismantle parts in the eject state.

Parts to remove	Item
Top cover	2-1
Front panel	2-1
Bottom cover	2-1
Rear panel	2-1
US-FL mechanism	2-1
NCM and N&A board	2-4
US mechanism/ MAS board assembly	2-5

Parts to remove	Item
Cassette door	2-2
Buttons	2-2
Front frame	2-3
LCJ and FST board	2-3
RJK board	2-1
US mechanism	2-6

Item	Parts to remove
2-1	Top cover, front panel, rear panel,bottom cover, RJK board and US-FL mechanism

◆ Caution when reinstalling the US-FL mechanism

Reinstall the US-FL mechanism in the state that the cassette holder is pulled forward.
(Otherwise, the switch arm could damage the FL switch on the MAS board.)

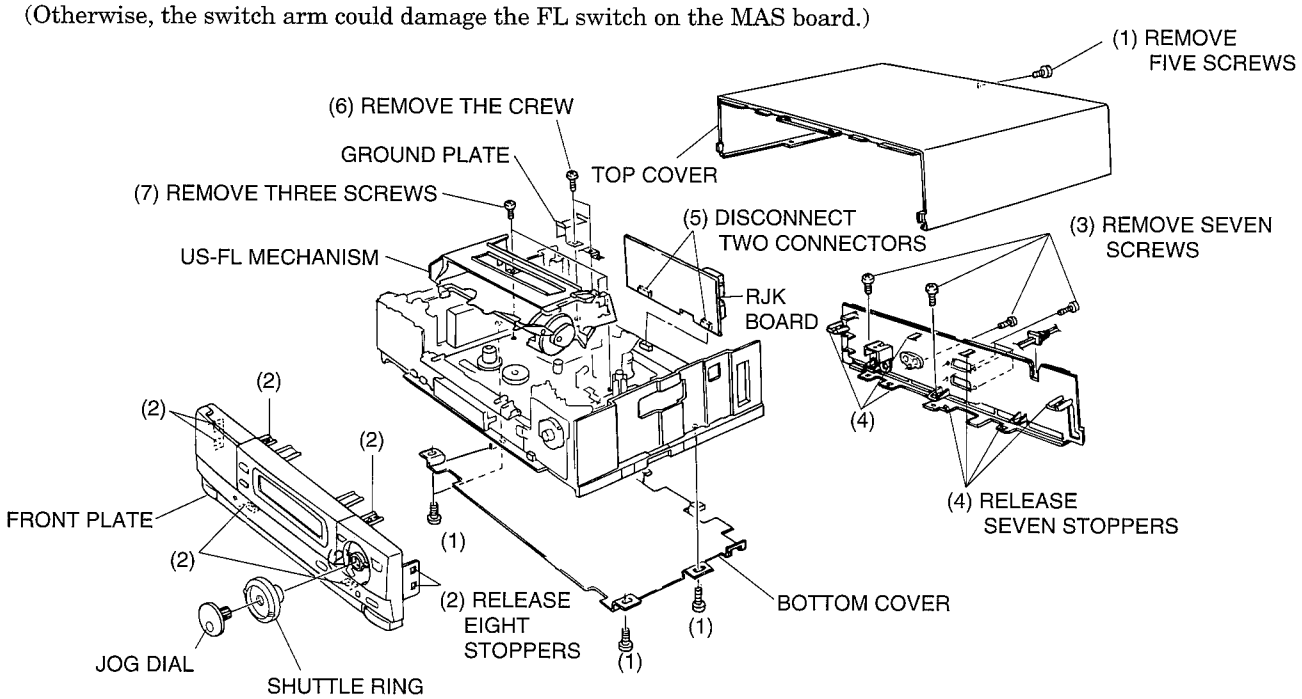
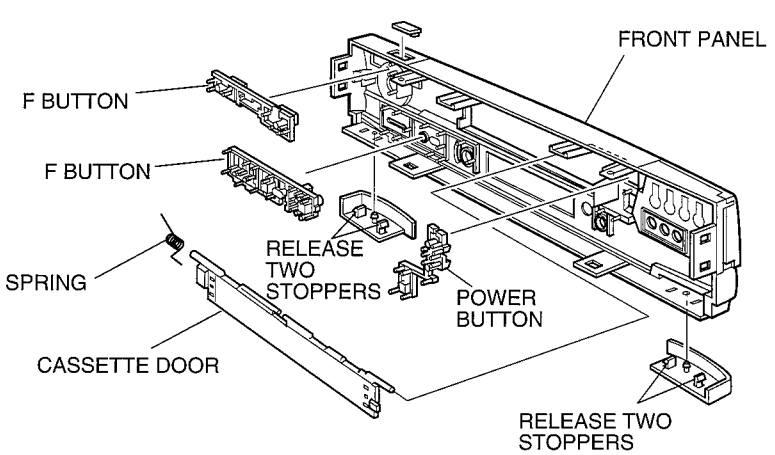


Fig. 2-1

2-2	Cassette door and buttons

◆ Caution when reinstalling the front panel

Reinstall the front panel in the state the cassette door is pushed so the boss of the door arm comes to the front of the boss support of the cassette door.



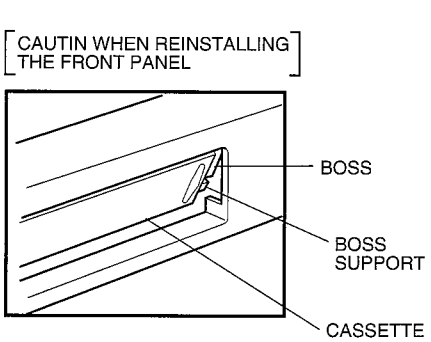


Fig. 2-2

Item	Parts to remove
2-3	Front frame, LCJ and FST board

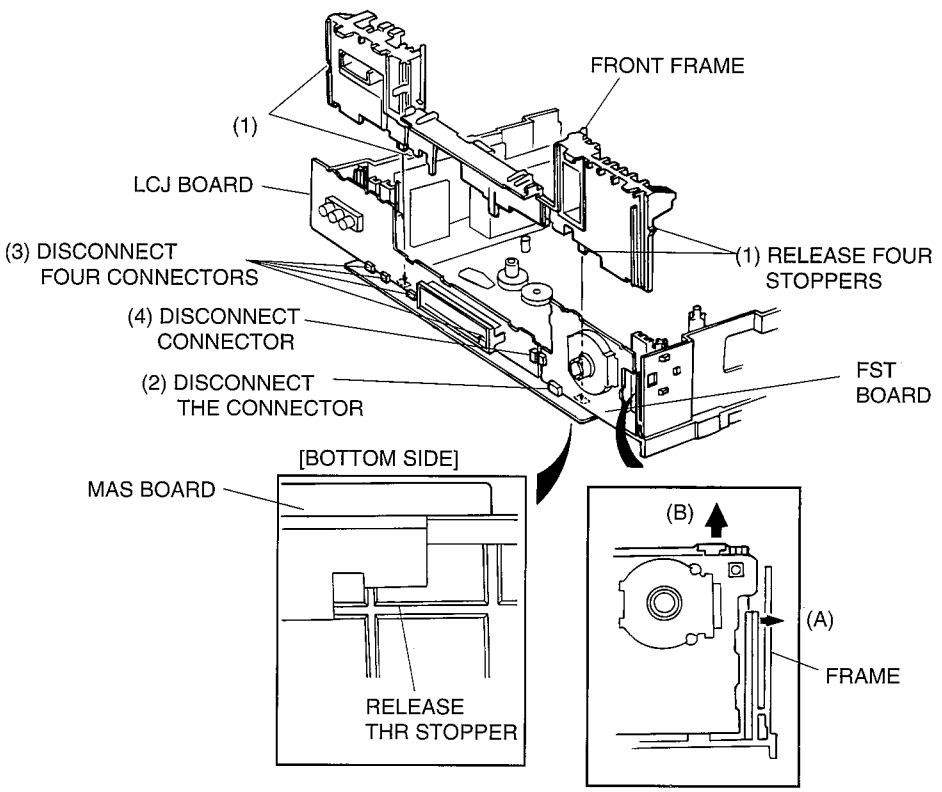


Fig. 2-3

2-4	NCM and N&A board

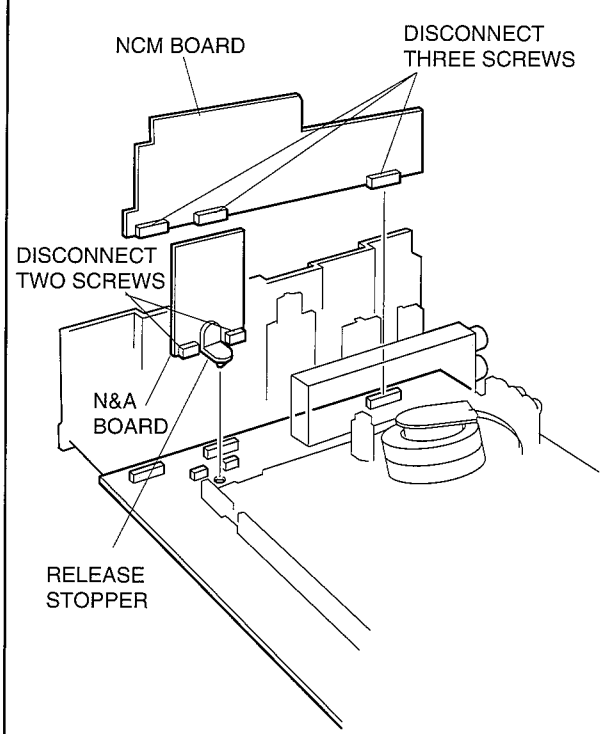


Fig. 2-4

2-5	US machanism and MAS board assembly

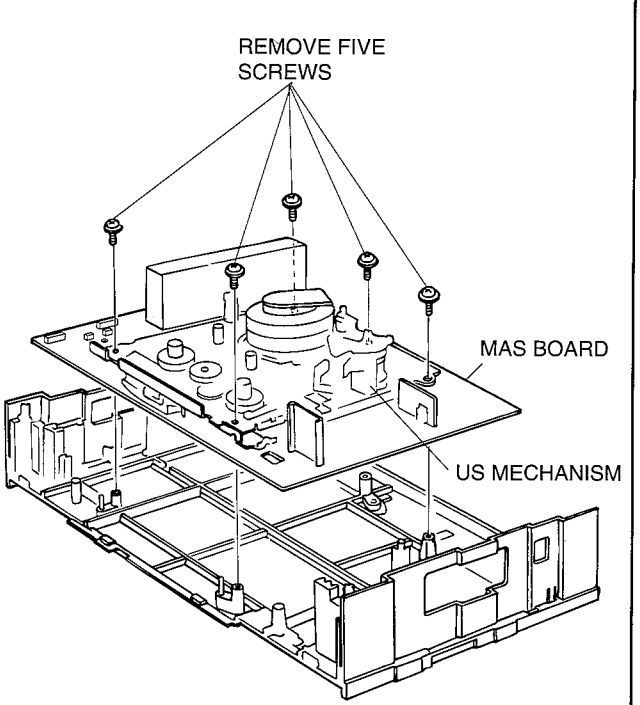


Fig. 2-5

Item	Parts to remove
2-6	Separation of MAS board from US mechanism

[Rear of the mechanism]

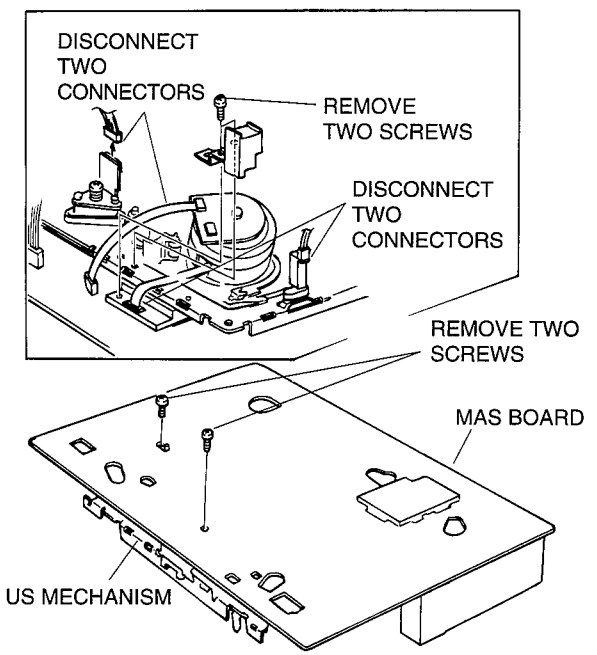


Fig. 2-6

Procedure to remove only the US mechanism

With this VCR the US mechanism can be removed without removing the MAS board. This is done by a different method from the normal disassembly method.

Parts to remove	Item
Top cover	2-1
⇩	
Front Panel	2-1
⇩	
US-FL mechanism	2-1
⇩	
Remove two screws on the bottom of the VCR.	2-7
⇩	
Remove five screws holding the US mechanism.	2-7

2-7	Procedure to remove only the US mechanism

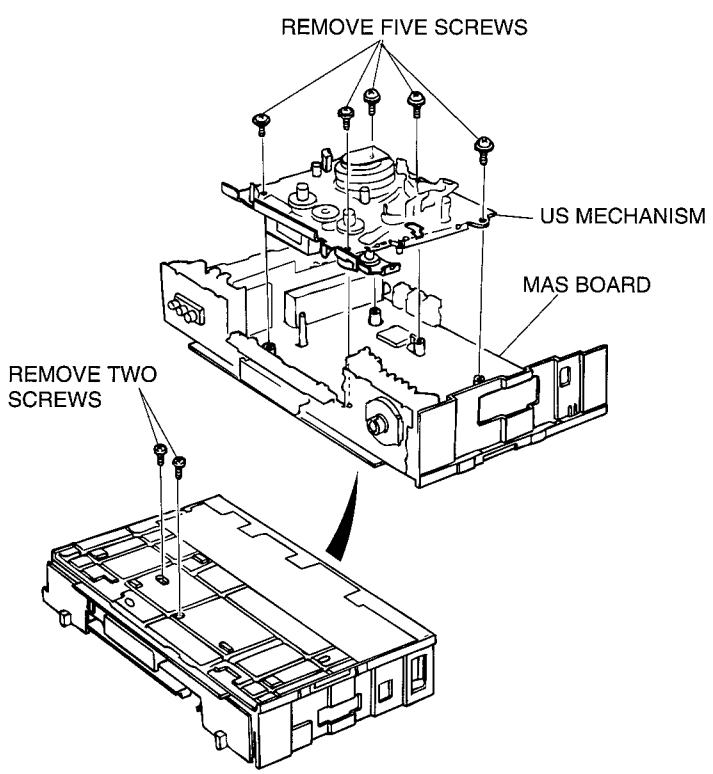


Fig. 2-7

Cautions When Reinstalling the US Mechanism

This VCR has mechanism sensors on the MAS board and the capstan and loading motors are connected via direct connectors. Therefore, when reinstalling the US mechanism, observe the following cautions.

1) Align the ▽ mark and mode no. 1 of the mechanism state switch on the MAS board. (Mode no. 1 of the mechanism state switch has a click position.)

2) Check that mode no. 1 on the P drive gear in the mechanism and the ▽ mark of the spring hook are aligned. If they are not aligned, turn the loading motor pulley to align them.

3) Pass the end LED through the hole in the mechanism and install the mechanism from immediately above using the installation position holes as reference. Check that the boss of the mechanism state switch and the hole in the cam gear are aligned.

4) Push the terminal sections (shaded sections ▨) of the capstan and loading motors and check that they are inserted securely.

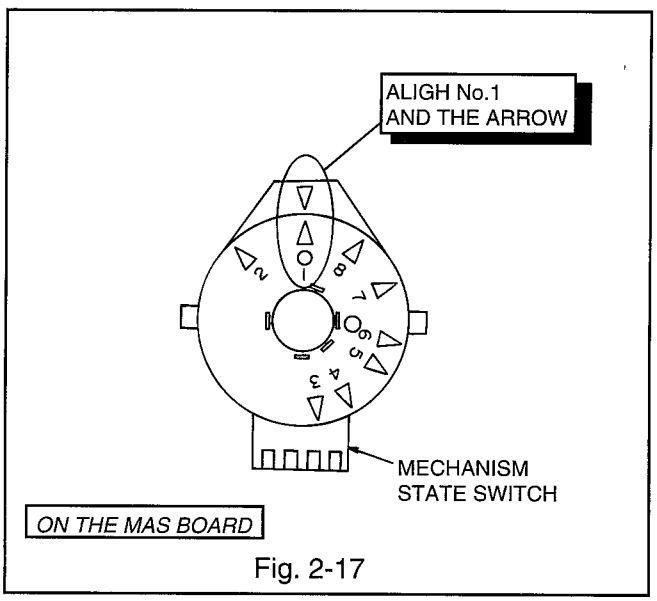


Fig. 2-17

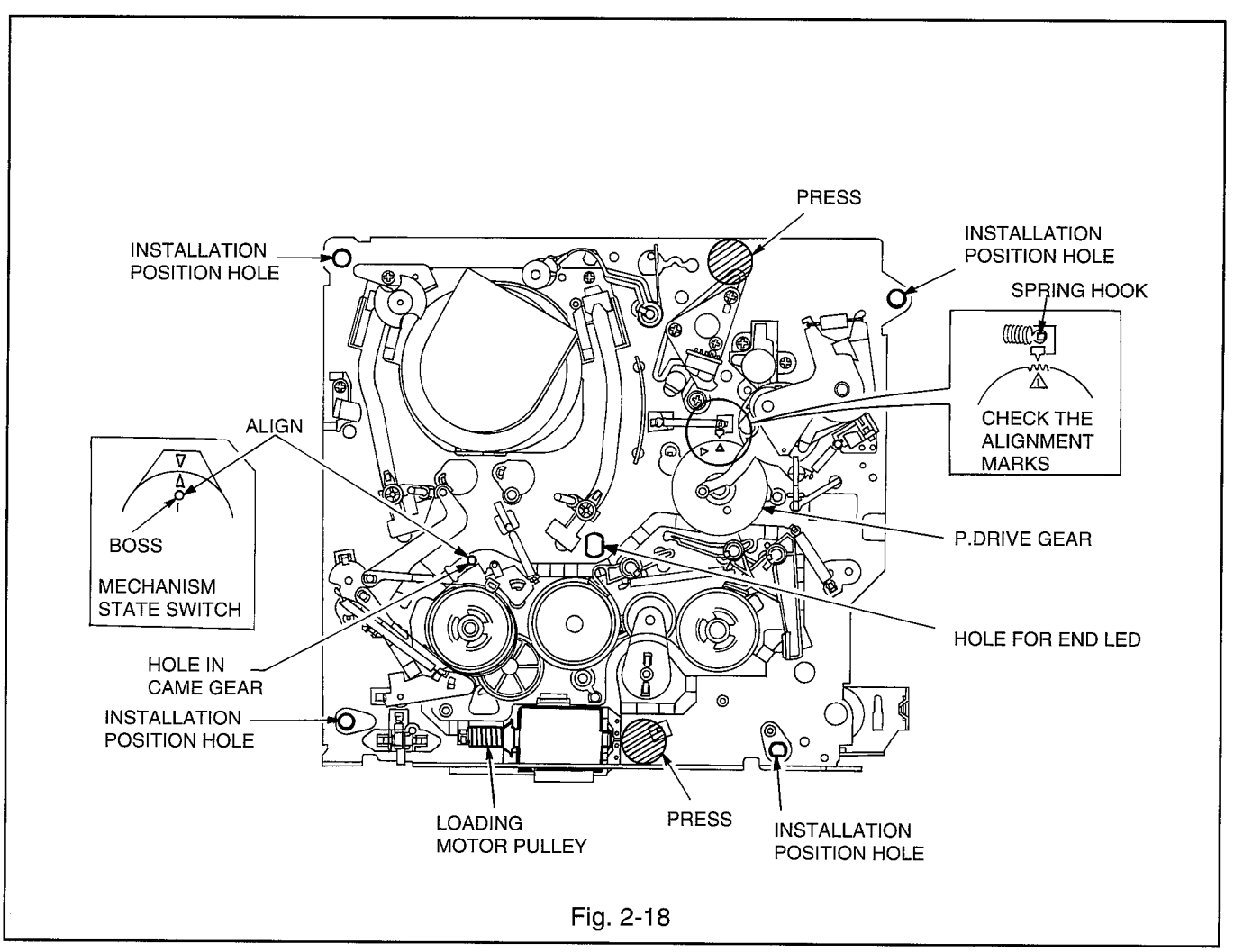


Fig. 2-18

CHAPTER 3 ELECTRIC CIRCUIT ADJUSTMENT AND TROUBLE DISPLAY

Service Positions

- VT-FX75xE/FX76xE/MX730E -

1. Servicing position during electrical adjustment

Perform adjustment after removing the top cover, front panel and rear panel.

When the shield cover of the connector between the cylinder motor and MAS circuit boards is removed, noise appears in the played back picture. Attach the shield cover when checking the picture on the screen.

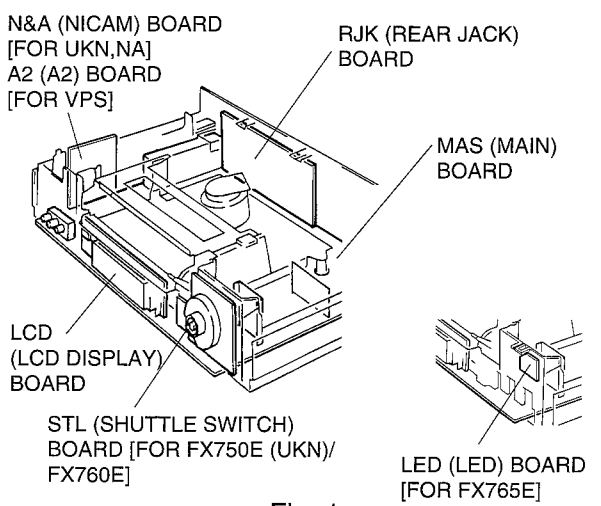


Fig. 1

2. Servicing positions when repairing and checking circuits

2-1. Procedure to set the LCD and STL or LED and N&A or A2boards to the servicing positions (Fig. 2)

1) Remove the top cover and front panel.
2) Remove the US-FL mechanism.
3) Remove the LCD and STL or LED boards and front frame, then reattach the LCD and STL or LED board.
4) Check all boards from the pattern side, shown by the arrow.

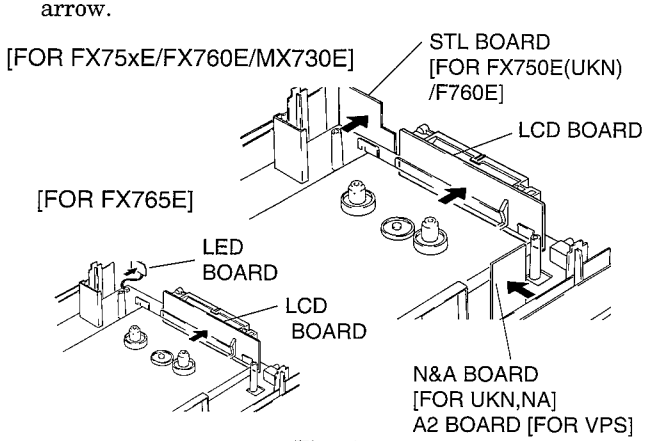


Fig. 2

2-2. Procedure to set the MAS board to the servicing position (Fig. 3)

1) Remove the top cover, front panel and rear panel.
2) Remove the US-FL mechanism and front frame.
3) Remove the MAS board, with the each board and the US mechanism assembled, from the frame.
4) Turn over the MAS board and perform checks from the pattern side indicated by the arrow.
   Be careful of the following at this time.
   · Lay out an insulation sheet under the boards.
   · Attach the shield cover at the rear of the cylinder.
   Attach the US-FL mechanism when loading the tape.

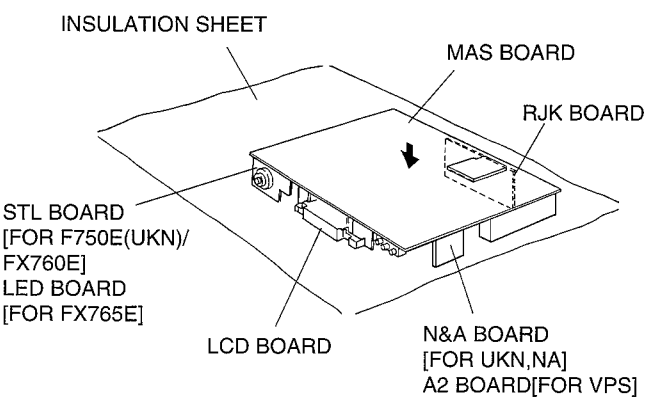


Fig. 3

3. Be careful of electric shocks

The power supply block on the right of the VCR has a heat sink which generates a high voltage. "HIGH VOLTAGE" is printed on the heat sink. Take great care when handling this heat sink when the power is turned on during servicing.

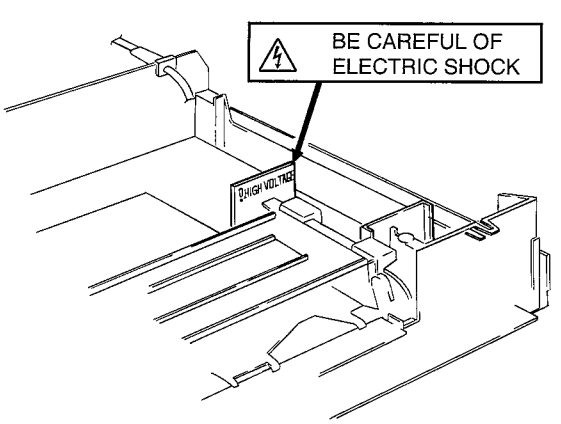


Fig. 4

Service Positions

- VT-FX770E -

1. Servicing position during electrical adjustment

Perform adjustment after removing the top cover, front panel and rear panel.

When the shield cover of the connector between the cylinder motor and MAS circuit boards is removed, noise appears in the played back picture. Attach the shield cover when checking the picture on the screen.

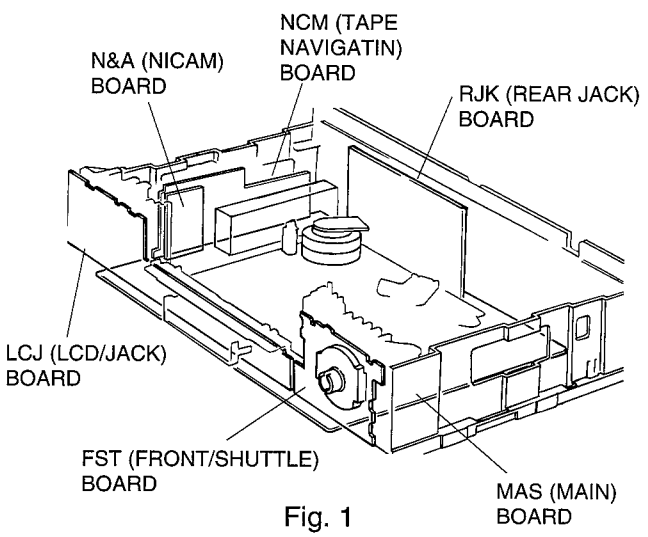


Fig. 1

2. Servicing positions when repairing and checking circuits

2-1. Procedure to set the LCJ, FST,NCM,RJK and N&A boards to the servicing positions (Fig. 2)

1) Remove the top cover, front panel and rear panel.
2) Remove the US-FL mechanism.
3) Remove the front frame and open each board as shown in the diagram below and perform check from the patterm side (indicated by the arrow).

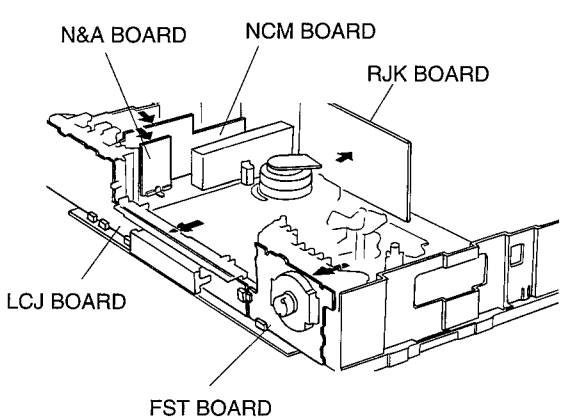


Fig. 2

2-2. Procedure to set the MAS board to the servicing position (Fig. 3)

1) Remove the top cover, front panel and rear panel.
2) Remove the US-FL mechanism and front frame.
3) Remove the MAS board, with each board and the US mechanism assembled on it, from the frame.
4) Turn over the MAS board and perform checks from the pattern side (indicated by the arrow).
   Take care of the following at this time.
   · Lay the insulation sheet under the boards.
   · Attach the US-FL mechanism when loading a tape.

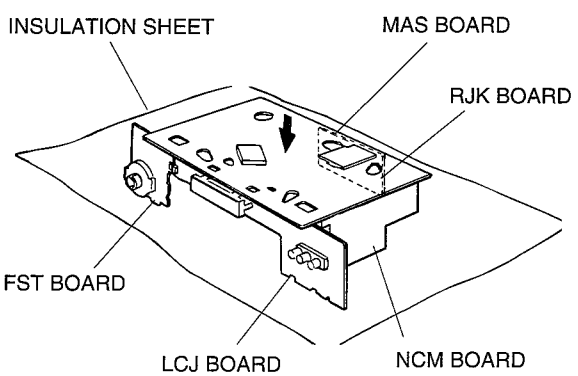


Fig. 3

3. Be careful of electric shocks

The power supply block on the right of the VCR has a heat sink which generates a high voltage. "HIGH VOLTAGE" is printed on the heat sink. Take great care when handling this heat sink when the power is turned on during servicing.

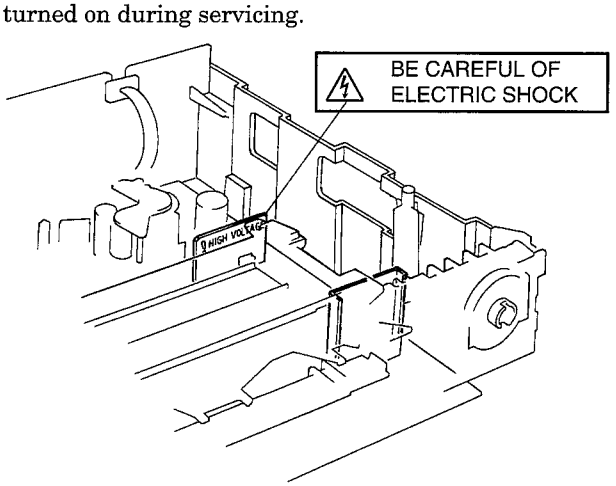


Fig. 4

Electrical Circuit Adjustment

1. Test equipment/jigs necessary for adjustment

1) Dual-trace oscilloscope
2) Colour bar generator
3) Voltmeter
4) Monitor TV (with A/V jacks)
5) Alignment tapes:
   MH-2: Part No. 7099052
   24HMAF-2: Part No. 7099175
   (Hi-Fi alignment tape)
6) Blank tape
7) C/R oscillator

2. Cautions on adjustment

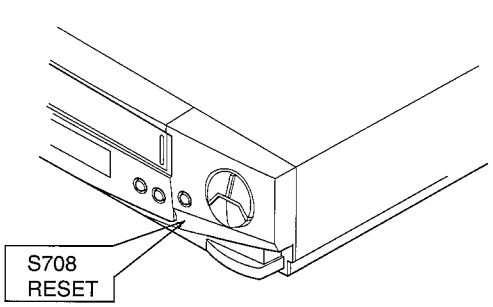
1) The following conditions apply when otherwise not specified.
   Probe of oscilloscope: 10:1
   Synchronization of oscilloscope: Internal sync
   Ground of test equipment: PG2508 pin 6
   (on MAS board)
2) When performing more than one adjustment, follow the specified order.

3. Tips for adjustment

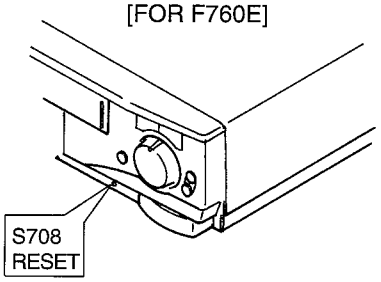
3-1.Procedure to reset the main microprocessor

The main microprocessor is not reset even when the power cord is unplugged from the AC outlet because its power is backed up by a backup circuit. Press S708 on the MAS board to reset the entire microprocessor. Do not press the reset switch with the power cord unplugged from the AC outlet as the slow tracking preset value could drift. If the preset value drifts, plug the power cord into an AC outlet and press the reset switch again with the power turned on. It is recommended that you press the reset switch after reinstalling the front panel.

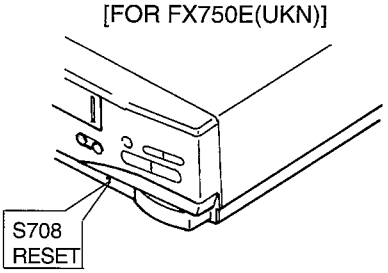
[FOR FX75xE(NA,VPS)/FX765E/MX730E]



[FOR F760E]



[FOR FX750E(UKN)]



[FOR FX770E]

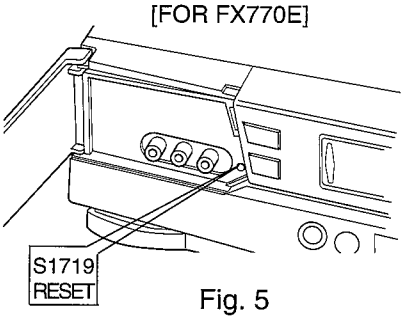


Fig. 5

3-2. Procedure to switch off the blue background function

1) Press the "GUIDE" button of the remote control to display the menu on the monitor TV screen.
2) Press 2 to select the VCR setup screen.
3) Press 1 to specify blue background off.

3-3. Procedure to obtain the LP head playback mode (X-value adjustment test mode)

Press the TRACKING UP(▲) and DOWN(▼) buttons of the remote control provided simultaneously when an alignment tape is being played and hold them, then press the "CHANNEL ▽" button on the VCR; The VCR enters the LP head playback mode (X-value adjustment test mode).

4. Connections of test equipment

Connect the test equipment as follows when otherwise not specified.

1) Connect a colour bar generator to the video input jack of the VCR.
2) Connect a monitor TV to the Euro Socket of the VCR.
3) Connect an antenna to the antenna jack and receive a TV broadcast (only for sound multiplex adjustment).

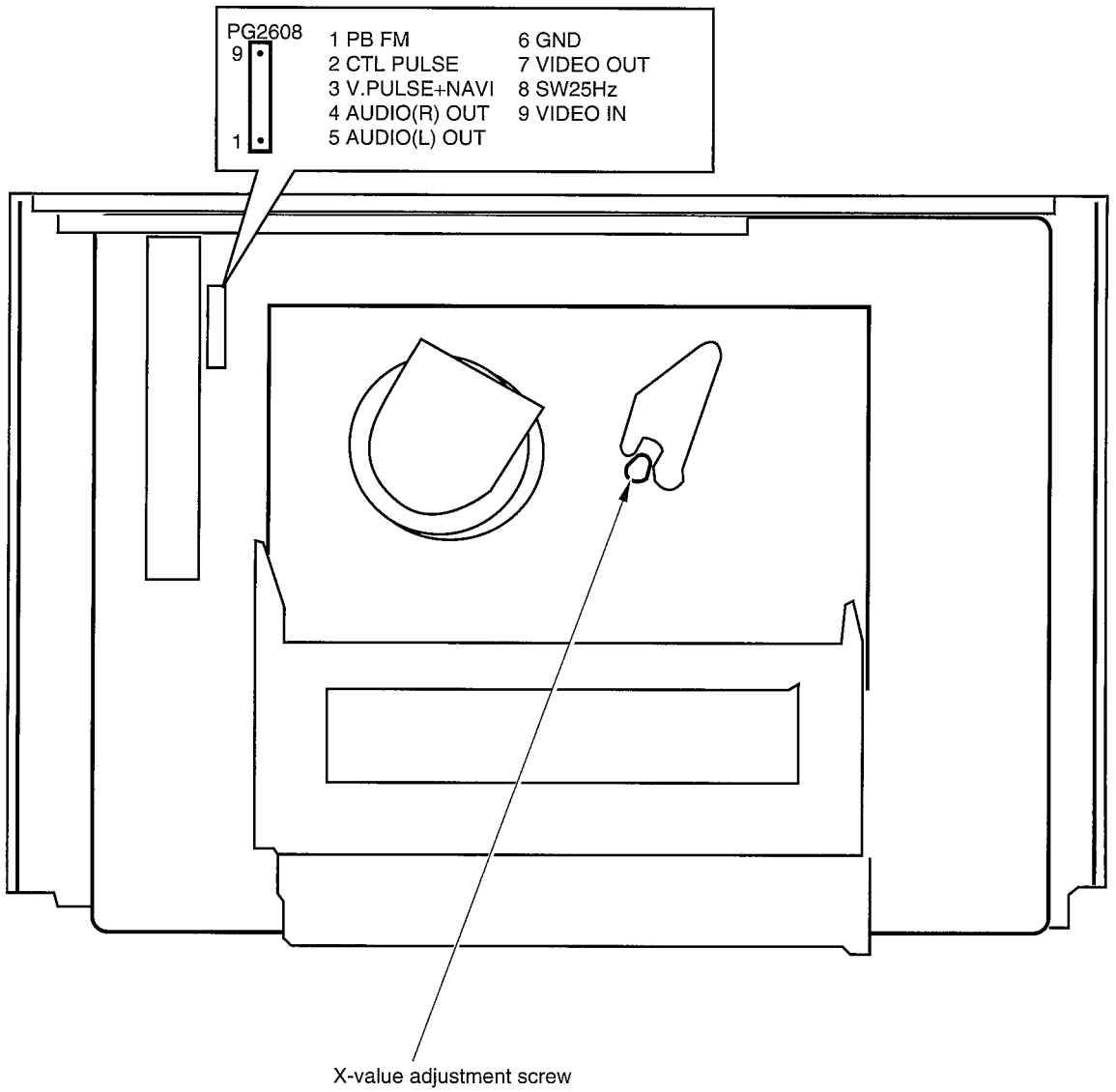


Fig. 6 MAS (Main) Circuit Board [Components Side]

6. Servo Circuit Adjustments

6-1. Switching point adjustment (Fig. 6)

Purpose:

To set the switching point of the video heads during playback to the center where the CH-1 and CH-2 envelopes overlap each other.

Fault due to incomplete adjustment:

Vertical sync signal is degraded and vertical jitter occurs.

Switching noise appears across the bottom of the screen.

Test Equipment/Jigs and Connection Points

Oscilloscope CH-1: Video out jack
CH-2: PG2508-8(SW25Hz)

Alignment tape (MH-2)

State of VCR

1) Play the alignment tape
2) Set to the X-value adjustment test mode.

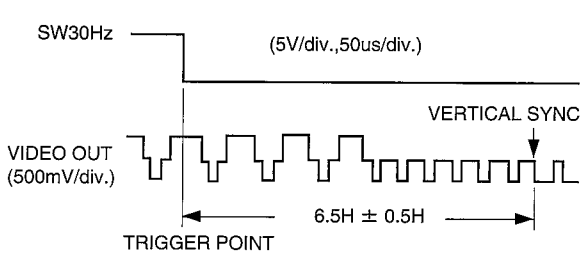
Adjustment Point

F.FWD button(S702)
REW button(S703)

Adjustment Procedure

1) Play the alignment tape.
2) Press the "TRACKING ▲ "and "TRACKING ▼ " buttons of the remote control provided simultaneously and hold them, then press the "CHANNEL ▽ "(S707) button of the VCR to set the VCR to the test mode. (SP is switched to LP in the display.)
3) Press the "F.FWD"and "REW" buttons of the remote control so the phase from the vertical sync to the trailing edge (trigger position) of the SW25Hz pulse is set to 6.5H ± 0.5H.
4) Press the "STOP" button to release the test mode.

Waveforms



<Conditions of oscilloscope>
Trigger with CH-2.
Set the sync slope to "-".

6-2. X-value adjustment (Fig. 6)

Purpose:

To ensure compatibility with other VCRs.

Fault due to incomplete adjustment:

When a tape recorded by another VCR is played back, the tracking is not optimized and noise appears on the screen.

Test Equipment/Jigs and Connection Points

Oscilloscope CH-1: PG2508-1 (PB FM)
CH-2: PG2508-8 (SW25Hz)

Alignment tape (MH-2)

State of VCR

1) Play the alignment tape.
2) Set to the X-value adjustment test mode.

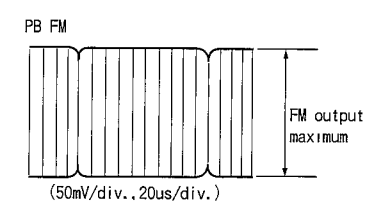
Adjustment Point

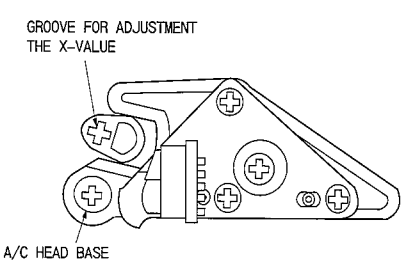
Groove for the adjustment X-value

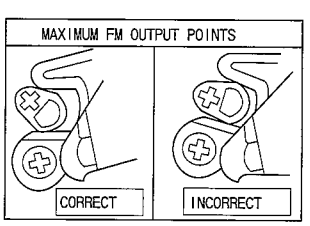
Adjustment Procedure

1) Play the alignment tape.
2) Press the "TRACKING ▲ "and "TRACKING ▼ " buttons of the remote control provided simultaneously and hold them, then press the "CHANNEL ▽ "(S707) button of the VCR to set the VCR to the test mode. (SP is switched to LP in the display.)
3) Loosen the screw holding the A/C head base (do not loosen it excessively).
4) Insert a screwdriver into the groove for adjusting the X-value and adjust so the FM output is maximum. There are two maximum FM output points when the groove for adjusting the X-value is turned. Adjust the FM output to a maximum when the groove is at the correct position as shown in the figure below.
5) Press the "STOP" button to release the test mode.

Waveforms







6-3. Vertical jitter adjustment

Purpose:
To suppress vertical jitter during slow and still play.

Fault due to incomplete adjustment:
Vertical jitter appears in the picture during slow and still play.

Test Equipment/Jigs and Connection Points
Monitor TV : Video output jack
Color bar generator: Video input jack
Blank tape

State of VCR
Record a color bar signal and play it using the same VCR.

Adjustment Point
TRACKING ▲ (Remote control)
TRACKING ▼ (Remote control)

Adjustment Procedure
<LP vertical jitter correction>: Record in the LP mode and play it back using the same VCR.
1) Press the "PAUSE" button to set the VCR to the still play mode.
2) Use the "TRACKING ▲" or "TRACKING ▼" buttons of the remote control to suppress vertical jitter of the picture.

<SP vertical jitter correction>: Record in the SP mode and play it back using the same VCR.
1) Press the "PAUSE" button to set the VCR to the still play mode.
2) Use the "TRACKING ▲" or "TRACKING ▼" buttons of the remote control to suppress vertical jitter in the picture.

6-4. Forward slow tracking preset adjustment

Purpose:
To adjust the timing with which the brake pulse of the capstan motor is generated during slow play so that noise is minimum.

Fault due to incomplete adjustment:
Noise appears during slow play and the picture is not clear.

Test Equipment/Jigs and Connection Points
Monitor TV : Video output jack
Color bar generator: Video input jack
Blank tape (E-180)

State of VCR
Slow tracking: Unplug the power cord to set the slow tracking to the center.

Adjustment Point
TRACKING ▲ (Remote control)
TRACKING ▼ (Remote control)

Adjustment Procedure
1) Record a signal on the middle of a E-180 blank tape in the LP mode and play it back using the same VCR.
2) Press the "TRACKING ▲" and "TRACKING ▼" buttons of the remote control (provided) simultaneously during playback and hold them, then press the "PLAY" button (S701) to set the VCR to the forward test slow mode.
3) Use the "TRACKING ▲" or "TRACKING ▼" buttons so the slow feed noise appears across the bottom of the monitor screen and then it is driven out from the bottom of the screen.
4) Check that no noise appears on the monitor screen.
5) Press the "PLAY" button to return the VCR to the playback mode (the preset data is written to the EEPROM).
6) Perform the same procedure to perform slow tracking preset adjustment in the SP mode.
Do not press the reset switch after adjustment when the power is not turned on as the preset value could drift. If the preset value drifts, turn the power on and press the reset switch again for recovery.

6-5. Reverse slow tracking preset adjustment

Purpose:
To adjust the timing with which the brake pulse of the capstan motor is generated during reverse slow play so that noise is minimum.

Fault due to incomplete adjustment:
Noise appears during reverse slow play and the picture is not clear.

Test Equipment/Jigs and Connection Points
Monitor TV : Video output jack
Color bar generator: Video input jack
Blank tape (E-180)

State of VCR
Slow tracking: Unplug the power cord to set the slow tracking to the center.

Adjustment Point
TRACKING ▲ (Remote control)
TRACKING ▼ (Remote control)

Adjustment Procedure
1) Record a signal on the middle of a E-180 blank tape in the LP mode and play it back using the same VCR.
2) Press the "TRACKING ▲" and "TRACKING ▼" buttons of the remote control (provided) simultaneously during still play and hold them, then press the "PLAY" button (S701) to set the VCR to the reverse test slow mode.
3) Use the "TRACKING ▲" or "TRACKING ▼" buttons so the slow feed noise appears across the bottom of the monitor screen and then it is driven out from the bottom of the screen.
4) Check that no noise appears on the monitor screen.
5) Press the "PLAY" button to return the VCR to the playback mode (the preset data is written to the EEPROM).
6) Perform the same procedure to perform reverse slow tracking preset adjustment in the SP mode.
Do not press the reset switch after adjustment when the power is not turned on as the preset value could drift. If the preset value drifts, turn the power on and press the reset switch again for recovery.

7. Audio Circuit Adjustments

7-1. Hi-Fi audio playback level check

Purpose:
To set the playback level of the Hi-Fi audio signal to the specified value.

Fault due to incomplete adjustment:
The appropriate volume cannot be obtained during playback.

Test Equipment/Jigs and Connection Points
Voltmeter
When checking L-CH:PG2508-5
When checking R-CH:PG2508-4
Hi-Fi alignment tape (24HMAF-2)

State of VCR
Play Hi-Fi alignment tape.

Adjustment procedure
Use the same checking procedure for both the L and R channels.
Check that the voltmeter reads -7.8dBs ± 3.0dBs.
If it cannot be confirmed, check the playback signal system.

7-2. E-E audio level check

Purpose:
To check the audio level in the E-E mode.

Fault due to incomplete adjustment:
To sound is abnormal in the E-E mode.

Test Equipment/Jigs
1) C/R oscillator: Audio in jack(L-CH)
Audio in jack(R-CH)
2) Voltmeter: Audio out jack(L-CH)
Audio out jack(R-CH)

State of VCR
E-E mode

Adjustment procedure
1) Apply a 1kHz, -7.8dBs sinewave signal to the audio input 1 (L-CH and R-CH).
2) Check that the voltmeter reads -6.8dBs±2.0dBs.
3) If the above cannot be confirmed, check the E-E audio line.

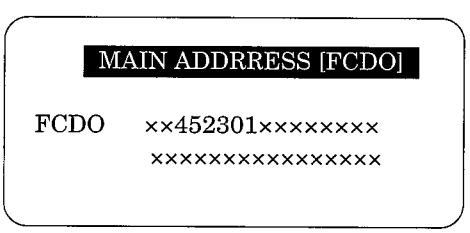
8. Cylinder Rotation Accumulated Hours of Usage Display

Display
This VCR has a function which displays the accumulated hours of cylinder rotation as a reference for replacing the cylinder.

1. Method for display
simultaneously holding down the "VCR channel ▲" and "VCR channel ▼" buttons on the provided remote control, with power ON and without a cassette inserted, press the "channel up" button on the VCR. When power is turned off, the display will disappear.

2. Clearing the accumulated hours
Same as for shipment mode initial setting.

3. Example of displau [In case of 12,345 hours]



VCR DISPLAY

9. List of Data in EEPROM and Initial Settings

The table below lists the data stored in ROM. It also shows the data set by shipment mode initialization, when the trouble display is cleared.

Information	Data memory ROM		List of initial data			Remarks
	IC903 VCR EEPROM	IC4302 NAVI EEPROM	Shipment mode initial data	Tape navi, map initial data	Clearing of trouble display	
Channel memory	Yes	No	Yes	No	No	
VCR mode select data	Yes	No	Yes	No	No	
Trouble display data	Yes	No	Yes	No	Yes	
Slow tracking data	Yes	No	No (set by adj.)	No	No	
Artificial V sync data	Yes	No	No (set by adj.)	No	No	
Switching point data	Yes	No	No (set by adj.)	No	No	
SAT data	Yes	No	Yes	No	No	
Tape navigation map data	No	Yes	No	Yes	No	

10. List of Hidden Commands

The following tables list the mode setting commands during adjustment and EEPROM initial setting commands.

10-1. Mode setting commands during adjustment

Item	Mode in which command is accepted	Operation	Remarks
Tracking center	Play	Press the tracking up(▲) and down(▼) buttons of the remote control simultaneously.	
X-value adjustment test mode	Play	Press the tracking up(▲) and down(▼) buttons of the remote control simultaneously and press the "CHANNEL ▽ "button on the VCR.	
Forward test slow mode	Play	Press the tracking up(▲) and down(▼) buttons of the remote control simultaneously and press the "PLAY" button on the VCR.	
Reverse test slow mode	Still play	Press the tracking up(▲) and down(▼) buttons of the remote control simultaneously and press the "PLAY" button on the VCR.	

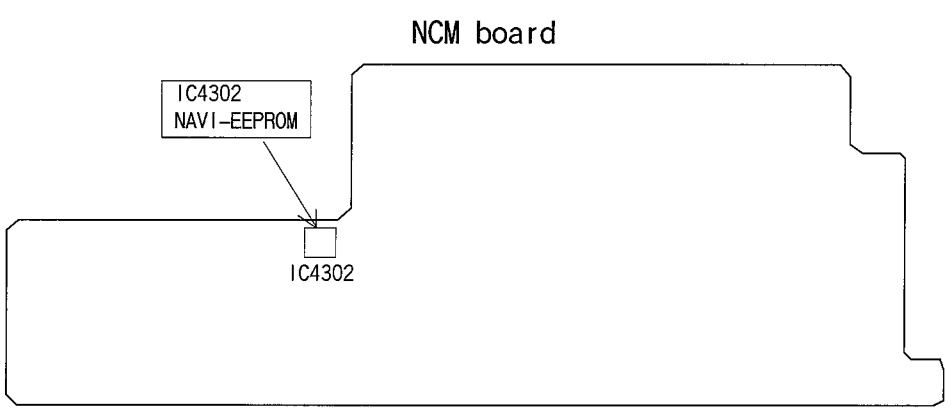
10-2. EEPROM initialization commands

Item	Mode in which command is accepted	Operation	Remarks
Shipment mode initial setting	EJECT	Press the "REC" buttons on the VCR and hold it, then press the "RESET" button used to initialize the microprocessor.	Hold the "REC" button depressed and release it after the display lights.
Clearing of trouble display	_____	Press the "PLAY" button on the VCR and hold it, then press the "RESET" button used to initialize the microprocessor.	Hold the "PLAY" button depressed and release it after the display lights.

11. Caution When Handling IC4302 (NAVI EEROM) [VT-FX770E]

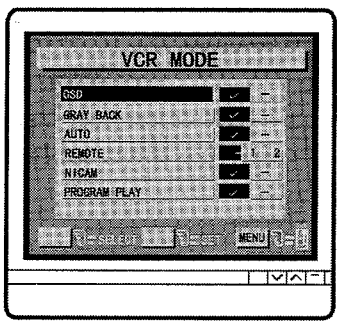
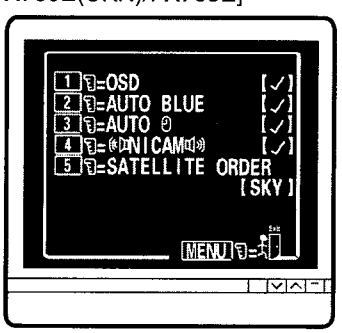
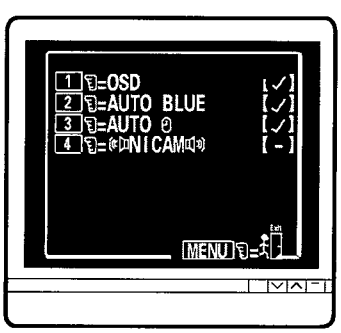
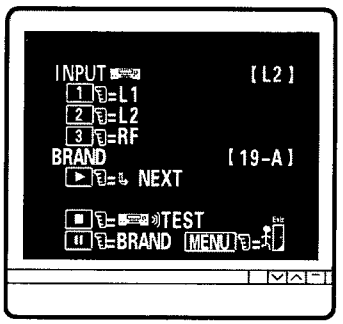
The navigation map data of the tapes on which the customer has made recordings is stored in IC4302 (NAVI EEPROM). When the CFN board is replaced, etc. during servicing, remove the ROM from the new board and install the ROM from the repaired product. Do not initialize the tape map information at this time.

Caution: Do not intialize the tape map data except when replacing IC4302 (NAVI EEPROM) due to a defect, etc. in this memory IC. Otherwise the tape navigation data stored by the customer will be erased.



12. Initial Settings of IC903(EEPROM)

The following shows the on-screen display and modes of switches when IC903 (EEPROM) is initialized.

(A)VCR SET-UP MENY	(B)SATELLITE SET-UP MENY
[FOR FX770E]  [FOR FX760E(UKN)/FX765E]  [FOR FX75xE/FX760E(NA)/MX730E]  Note: 4 is except for VT-MX730E.	

13. Caution When Replacing IC903 (EEPROM)

After replacing IC903 (EEPROM), execute the VCR initial settings and then perform the following adjustments.

	Adjustment	Page
1	Switching point adjustment	P3-5
2	Vertical jitter adjustment	P3-6
3	Forward slow tracking adjustment	P3-6
4	Reverse slow tracking adjustment	P3-6

TROUBLE DISPLAY FUNCTION

This VCR has a function which displays mechanism malfunctions, etc. in the LCD display. Use this function to analyze the cause when the power is shut off due to a malfunction, etc. in the mechanism.
Two types of information are displayed, 1)The operation mode when the malfunction occurred, 2)Malfunction Codes.

The details of the malfunction are displayed as follows.

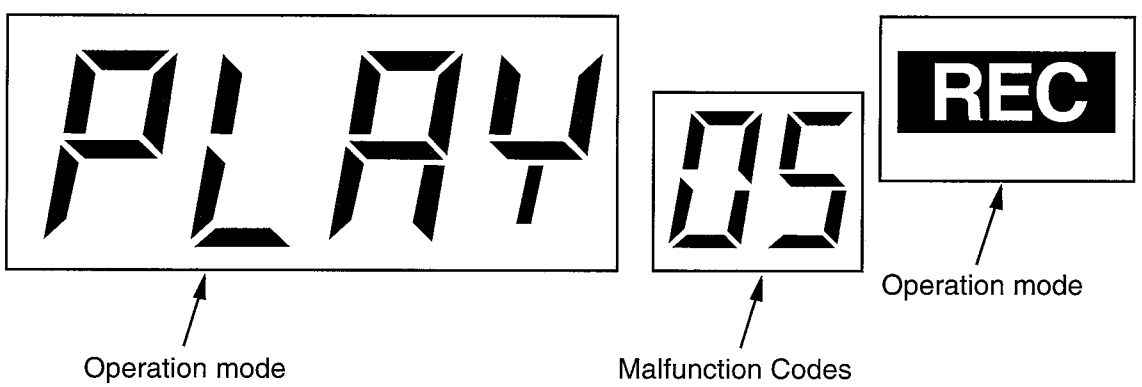
Procedure to display a malfunction

Press the (CH ▼) button on the VCR when the power is turned off and hold it; the malfunction code is displayed while the button is held depressed.

Procedure to clear the malfunction display

Press the "PLAY" button on the VCR and hold it, then press the microprocessor "RESET" button to initialize the trouble display.

LCD DISPLAY



【Display of details of malfunction】

Displayed No.	Item	Details
" 0 0 "	No malfunction	
" 0 1 "	FL mechanism lock	Malfunction in insertion/ejection of cassette
" 0 2 "	Capstan lock	Malfunction of capstan motor drive during tape unloading
" 0 4 "	Reel lock	Reel rotation trouble when tape is running
" 0 6 "	Cylinder lock	Cylinder rotation malfanction
" 0 7 "	Loading mechanism lock	Malfunction in shifting mechanism mode
" 1 6 "	Servo lock	Shorting of 5V detected

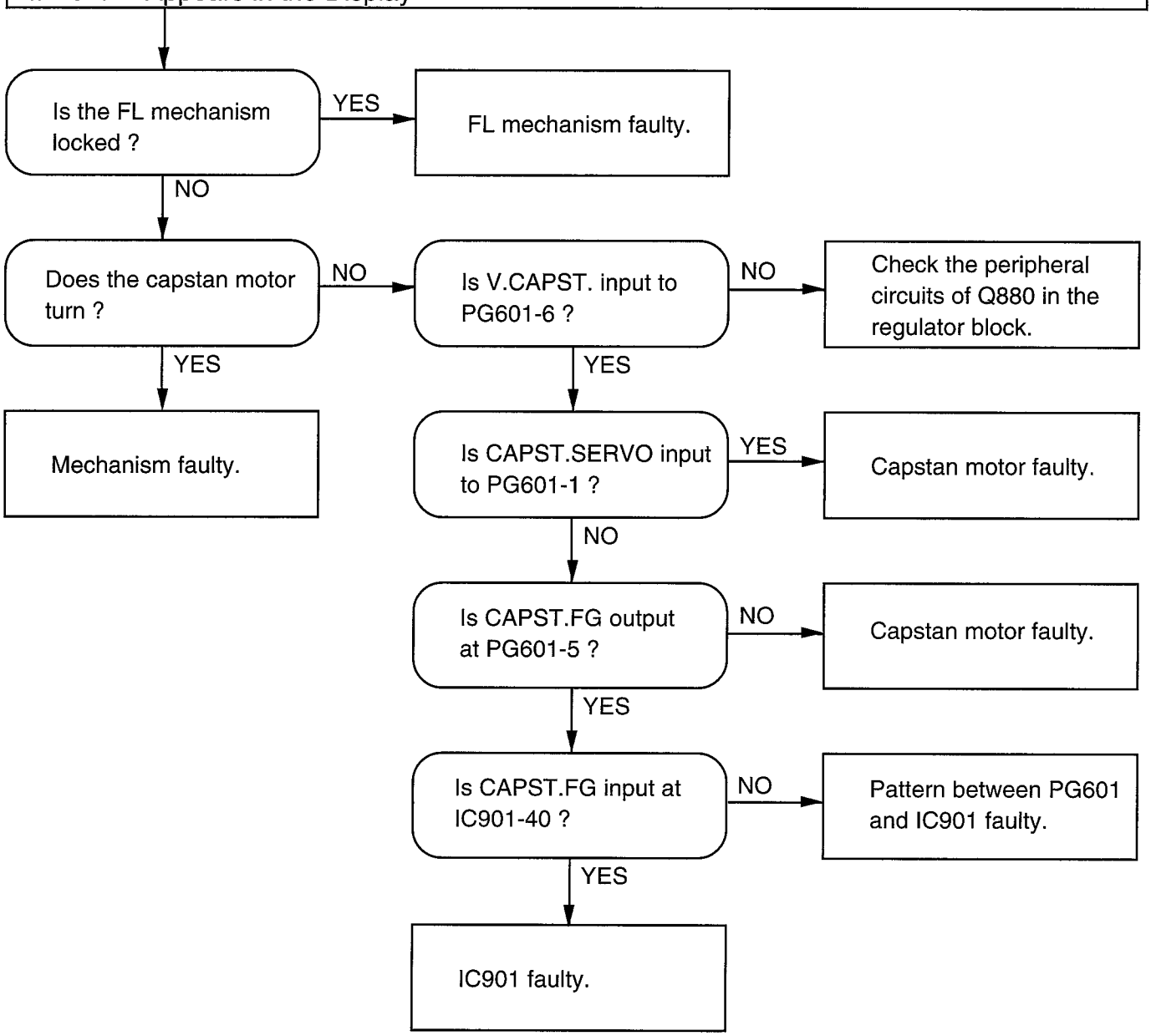
【Mode Display when Malfunction Has Occurred】

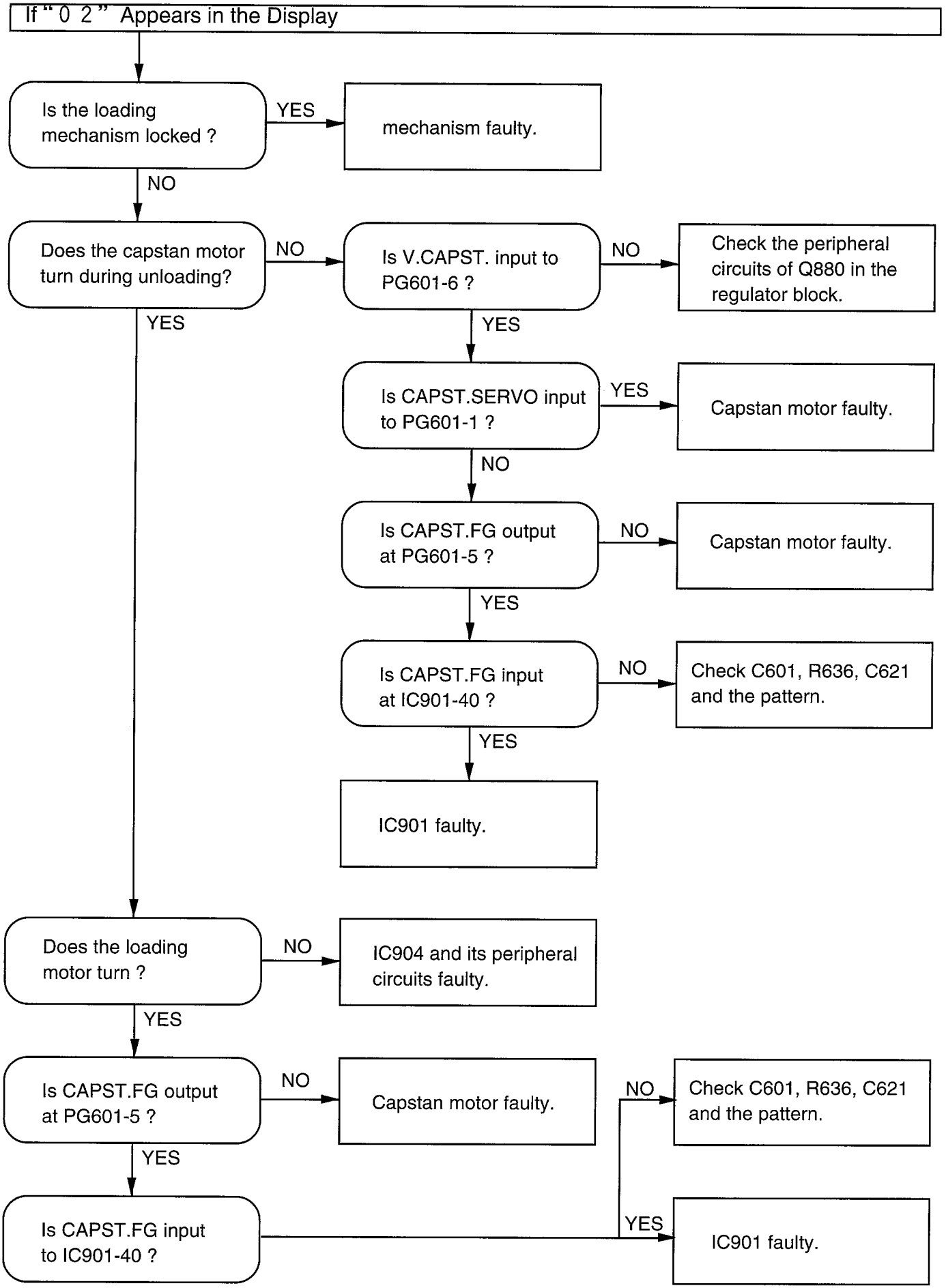
Mode	Display	Mode	Display
Stop	No Display	Playback	PLAY
Fast forward	FF	Reverse playback	−PLAY
Rewind	REW	Forward search	SRCH
Hight speed fast forward	FF	Reverse search	−SRCH
Hight speed rewind	REW	Slow motion play	SLOW
Recording	REC	Reverse motion slow play	−SLOW
Recording pause	REC (flashes)	Still motion play	STILL

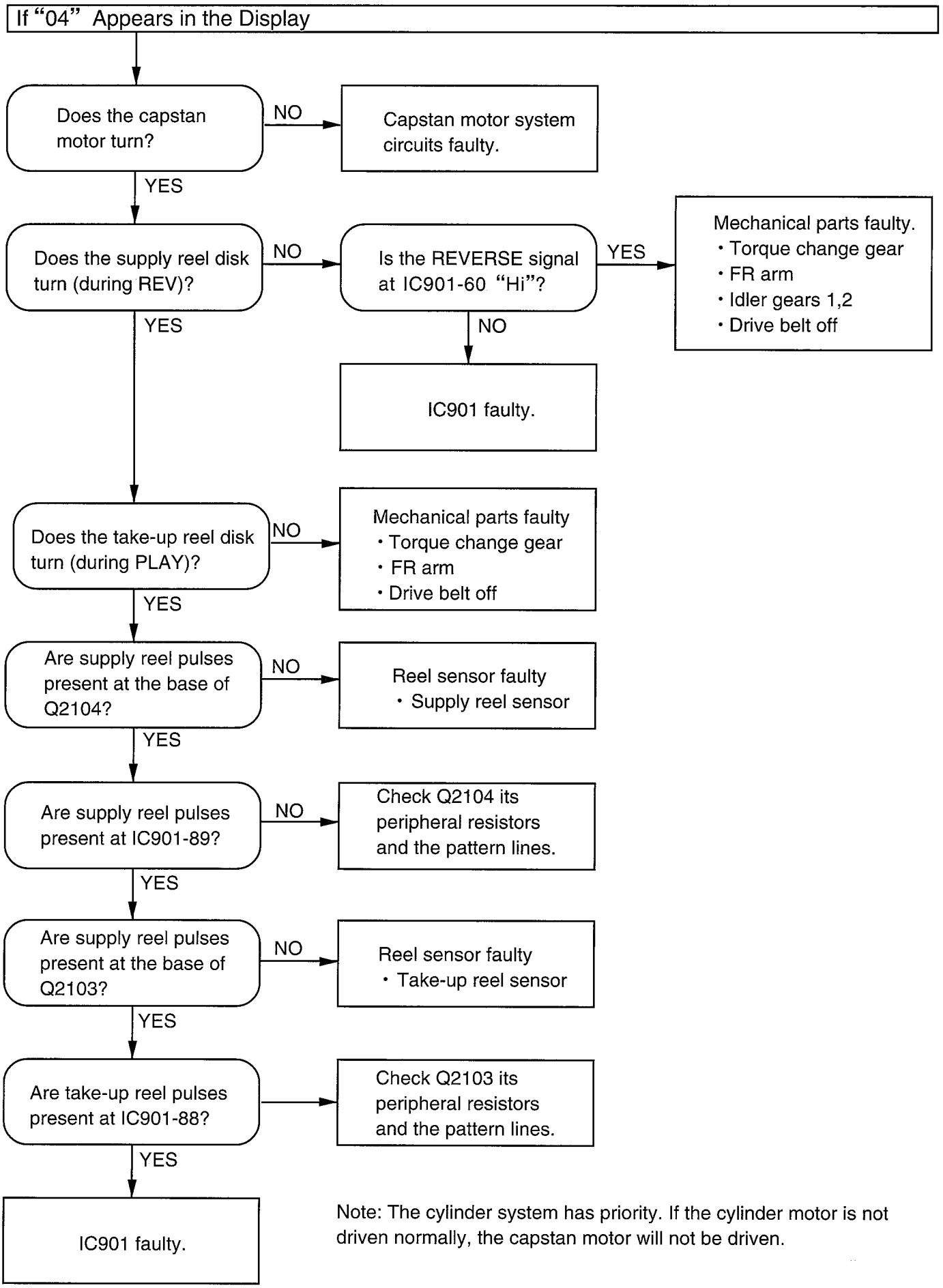
No symbols are displayed if the malfunction occurred when a cassette was inserted or ejected, or the power was switched on from off, and off from on.

Troubleshooting According to Malfunction Display

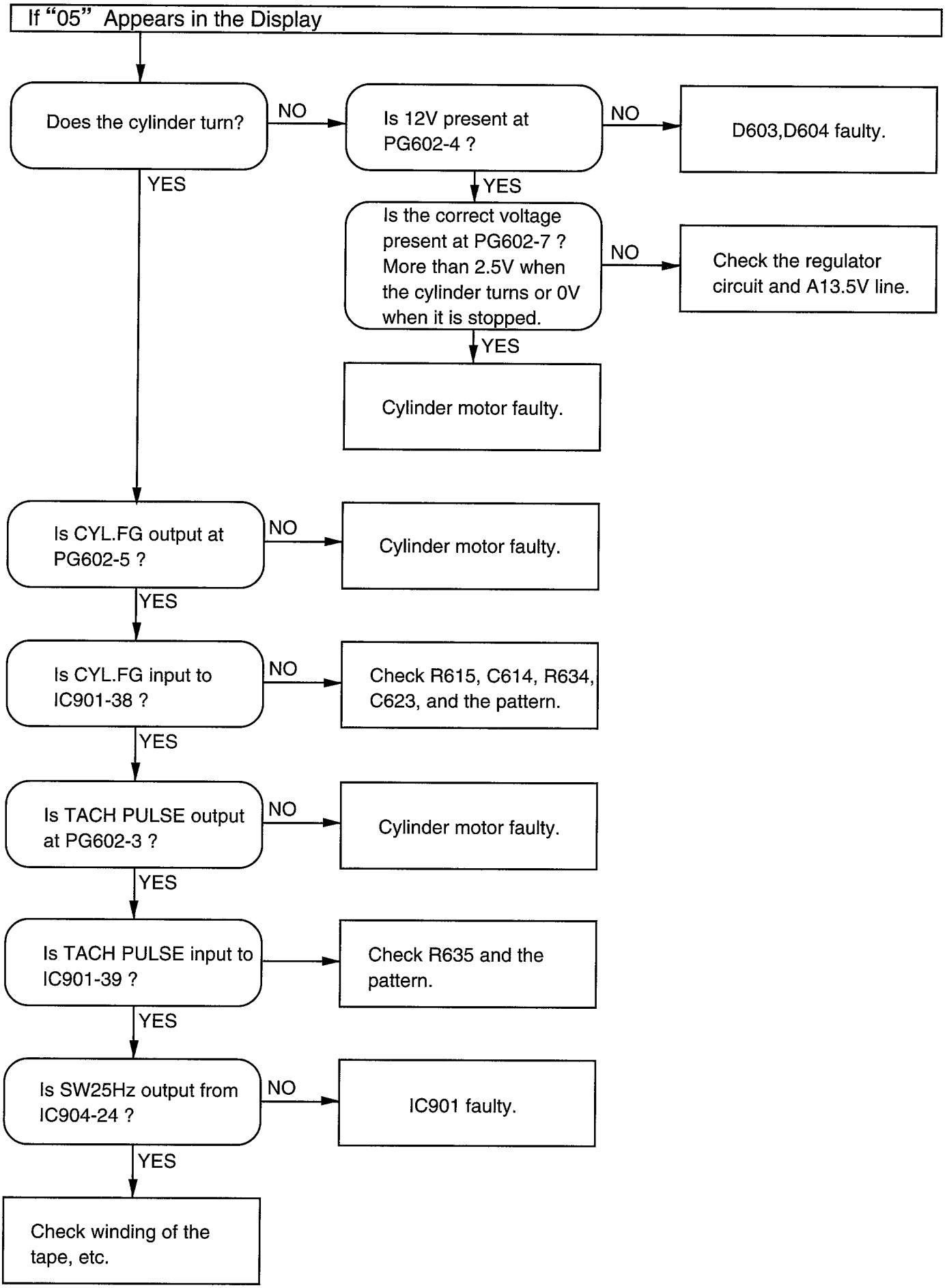
If " 0 1 " Appears in the Display

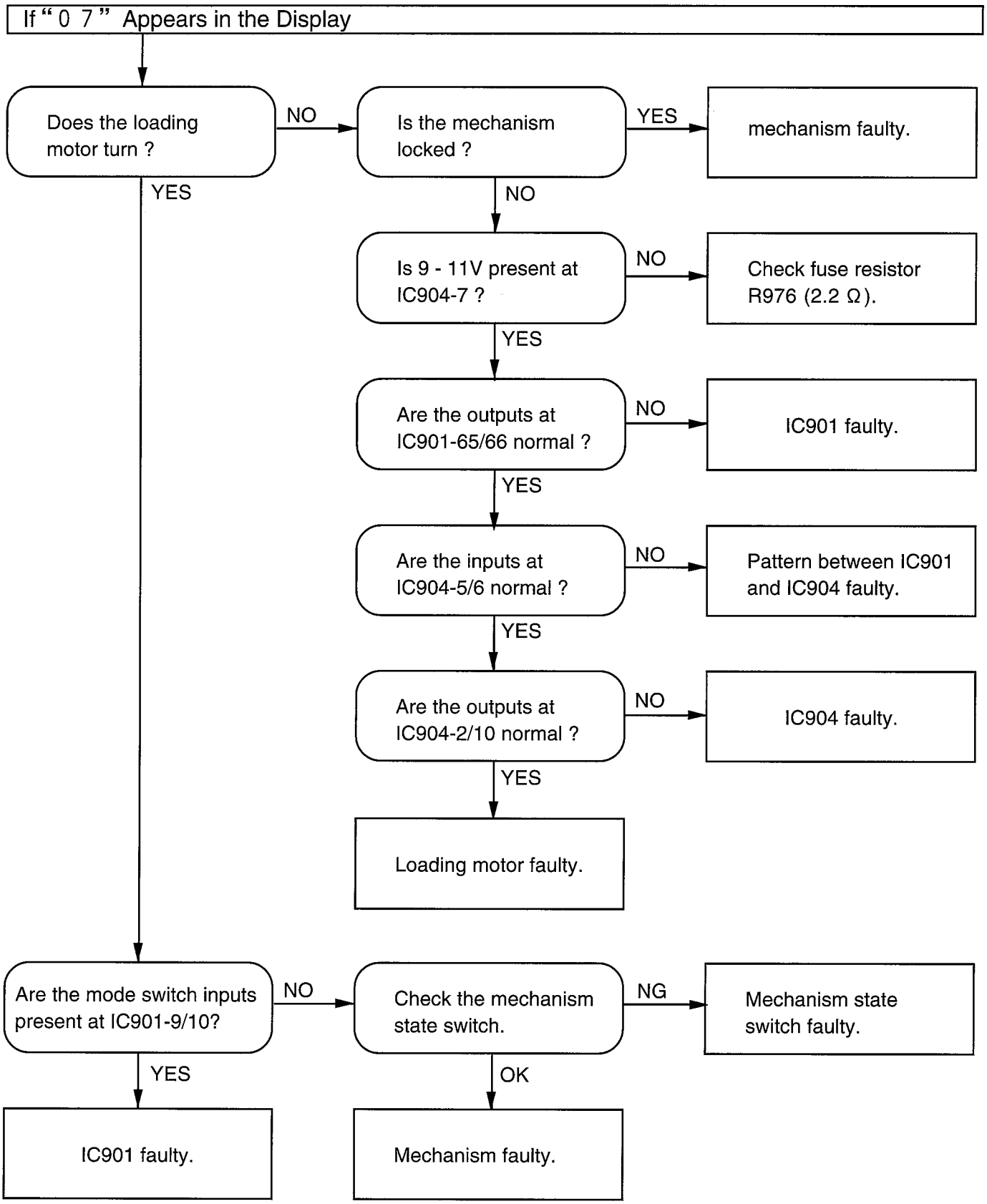


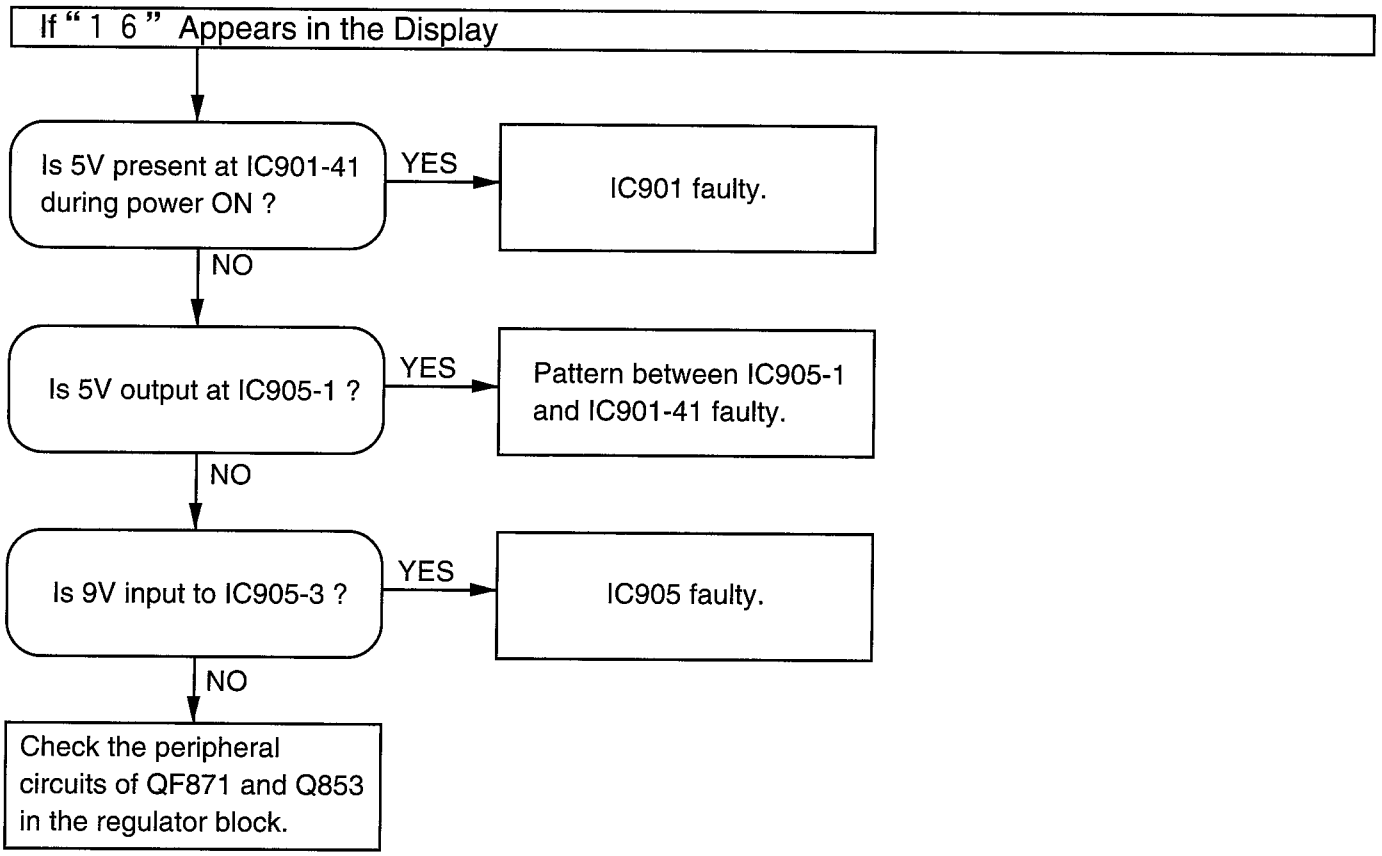

If " 0 2 " Appears in the Display
Is the loading mechanism locked ?
YES
mechanism faulty.
NO
Does the capstan motor turn during unloading?
NO
Is V.CAPST. input to PG601-6 ?
NO
Check the peripheral circuits of Q880 in the regulator block.
YES
YES
Is CAPST.SERVO input to PG601-1 ?
YES
Capstan motor faulty.
NO
Is CAPST.FG output at PG601-5 ?
NO
Capstan motor faulty.
YES
Is CAPST.FG input at IC901-40 ?
NO
Check C601, R636, C621 and the pattern.
YES
IC901 faulty.
Does the loading motor turn ?
NO
IC904 and its peripheral circuits faulty.
YES
Is CAPST.FG output at PG601-5 ?
NO
Capstan motor faulty.
NO
Check C601, R636, C621 and the pattern.
YES
Is CAPST.FG input to IC901-40 ?
YES
IC901 faulty.



Note: The cylinder system has priority. If the cylinder motor is not driven normally, the capstan motor will not be driven.


If "05" Appears in the Display
Does the cylinder turn?
NO
Is 12V present at PG602-4 ?
NO
D603,D604 faulty.
YES
YES
Is the correct voltage present at PG602-7 ? More than 2.5V when the cylinder turns or 0V when it is stopped.
NO
Check the regulator circuit and A13.5V line.
YES
Cylinder motor faulty.
Is CYL.FG output at PG602-5 ?
NO
Cylinder motor faulty.
YES
Is CYL.FG input to IC901-38 ?
NO
Check R615, C614, R634, C623, and the pattern.
YES
Is TACH PULSE output at PG602-3 ?
NO
Cylinder motor faulty.
YES
Is TACH PULSE input to IC901-39 ?
Check R635 and the pattern.
YES
Is SW25Hz output from IC904-24 ?
NO
IC901 faulty.
YES
Check winding of the tape, etc.

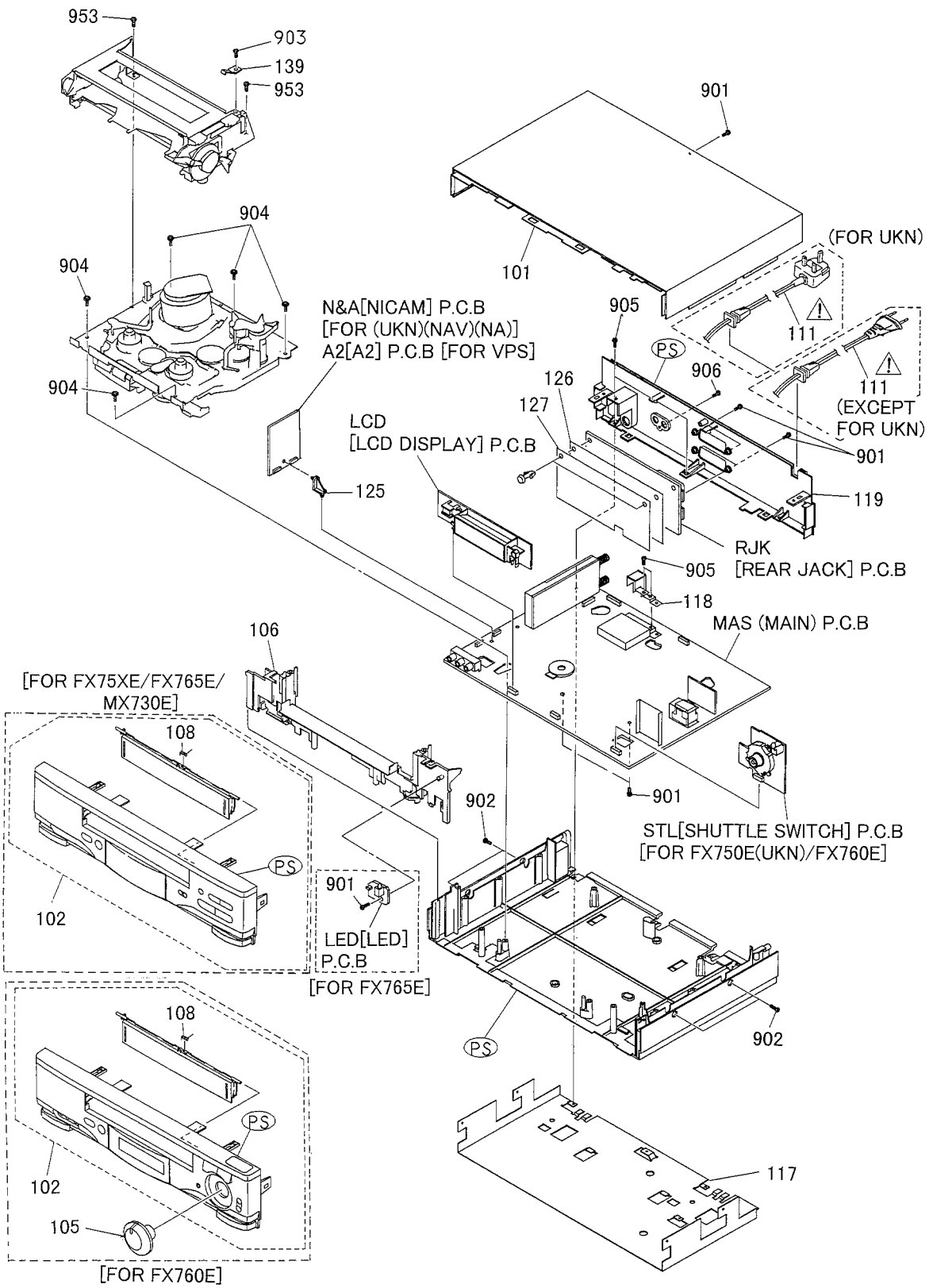

If " 0 7 " Appears in the Display
Does the loading motor turn ?
NO
Is the mechanism locked ?
YES
mechanism faulty.
YES
NO
Is 9 - 11V present at IC904-7 ?
NO
Check fuse resistor R976 (2.2 Ω).
YES
Are the outputs at IC901-65/66 normal ?
NO
IC901 faulty.
YES
Are the inputs at IC904-5/6 normal ?
NO
Pattern between IC901 and IC904 faulty.
YES
Are the outputs at IC904-2/10 normal ?
NO
IC904 faulty.
YES
Loading motor faulty.
Are the mode switch inputs present at IC901-9/10?
NO
Check the mechanism state switch.
NG
Mechanism state switch faulty.
YES
OK
IC901 faulty.
Mechanism faulty.


If " 1 6 " Appears in the Display
Is 5V present at IC901-41 during power ON ?
YES
IC901 faulty.
NO
Is 5V output at IC905-1 ?
YES
Pattern between IC905-1 and IC901-41 faulty.
NO
Is 9V input to IC905-3 ?
YES
IC905 faulty.
NO
Check the peripheral circuits of QF871 and Q853 in the regulator block.

CHAPTER 4 EXPLODED VIEW

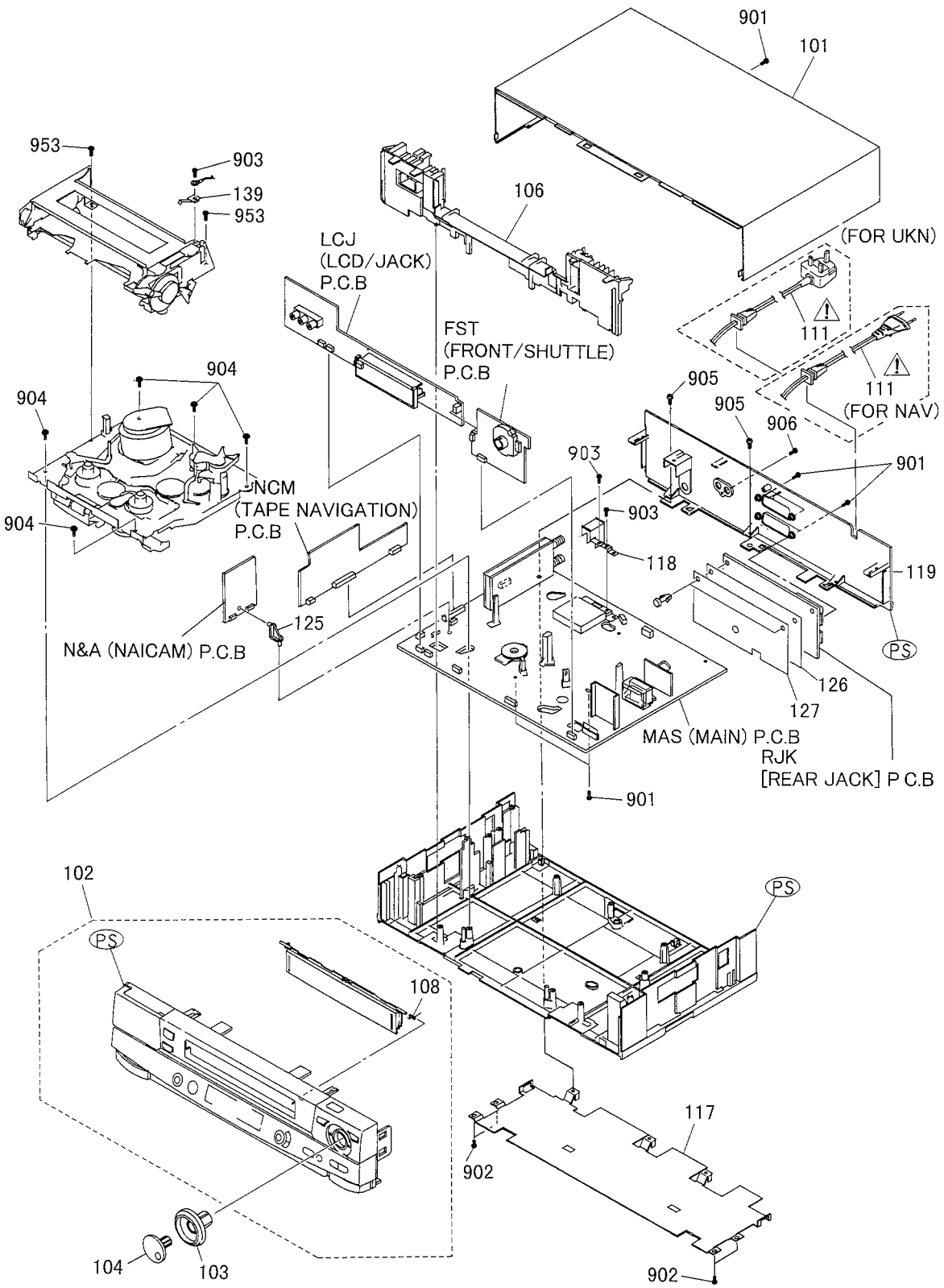
1. CABINET SECTION (VT-FX75xE/FX76xE)

NOTE: The synthetic resin members that can be dismantled are shown by abbreviations using letters.

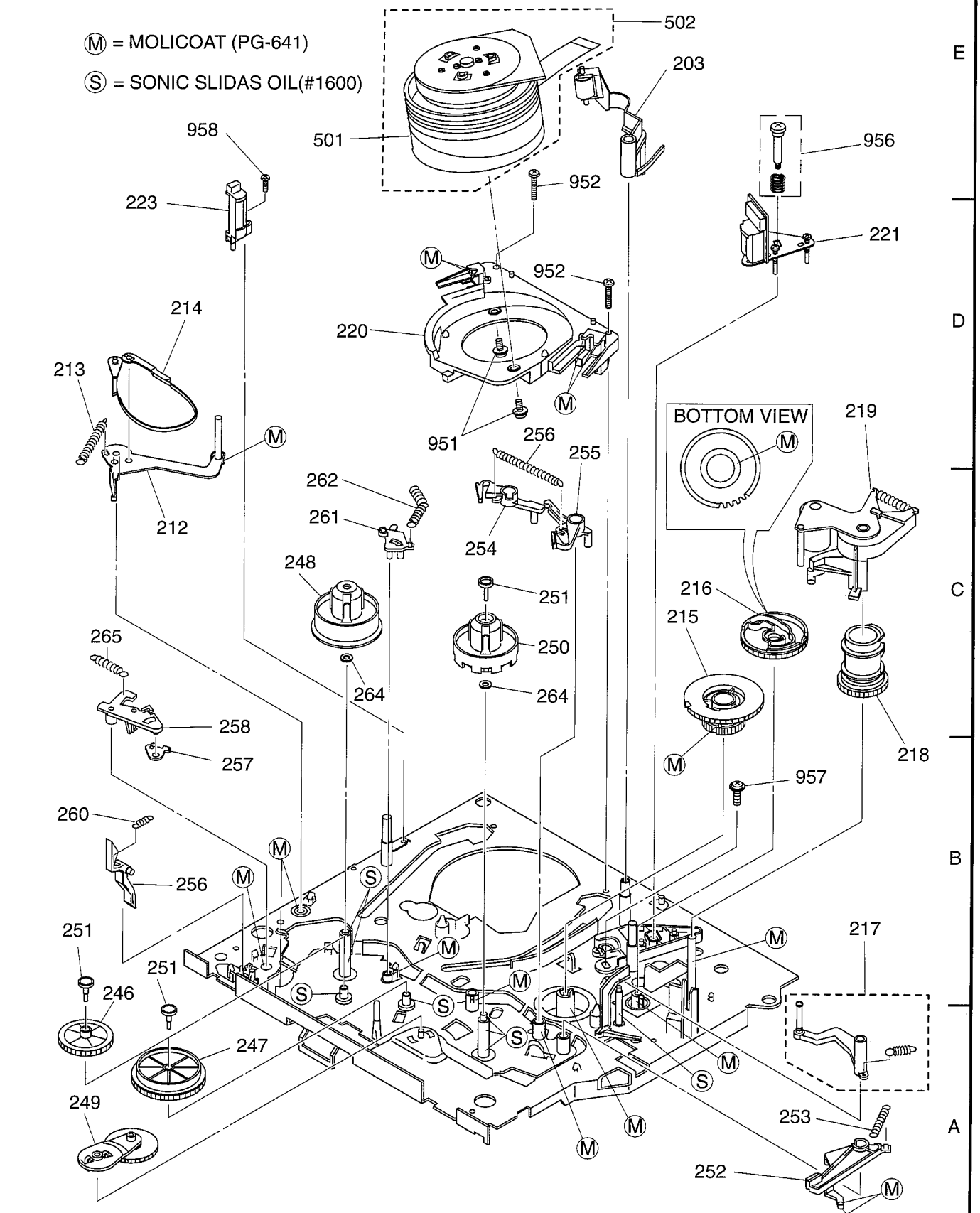


2. CABINET SECTION (VT-FX770E)

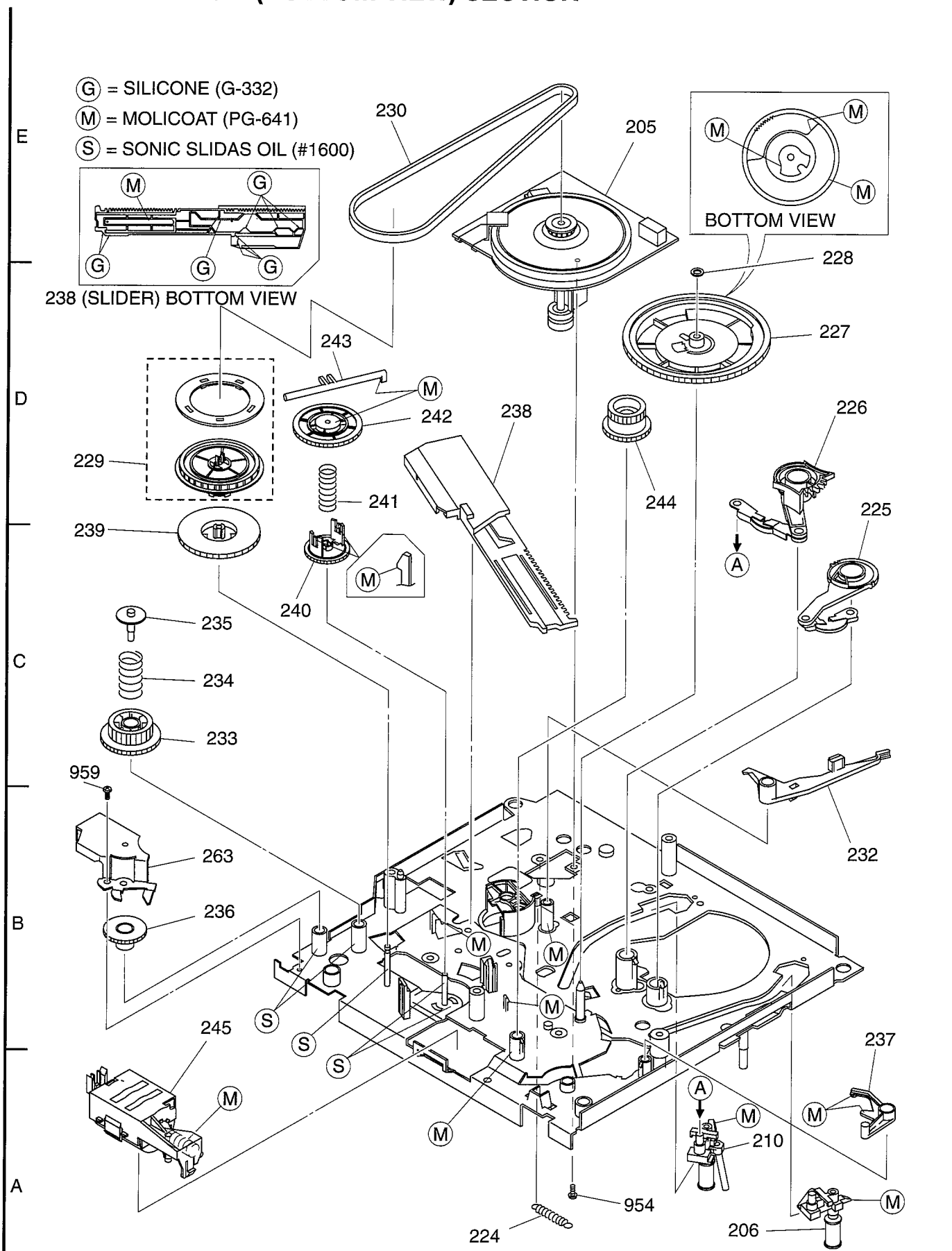
NOTE: The synthetic resin members that can be dismantled are shown by abbreviations using letters.



3. US-MECHANISM (TOP VIEW) SECTION



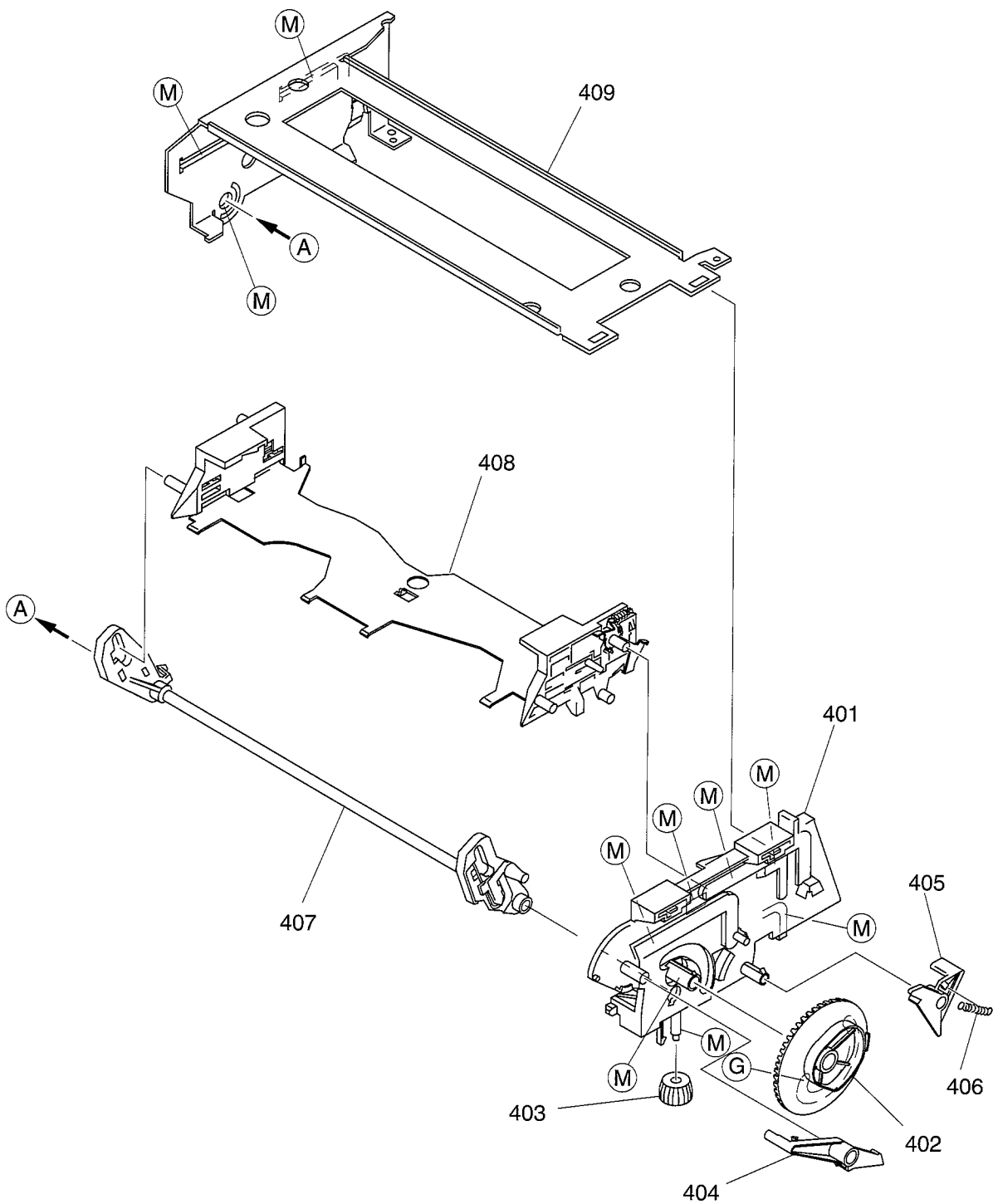
4. US-MECHANISM (BOTTOM VIEW) SECTION



5. US-FL MECHANISM SECTION

Ⓜ = MOLICOAT (PG-641)

Ⓖ = MOLICOAT (PG-641)



CHAPTER 5 REPLACEMENT PARTS LIST

Note 1. The model names shown in the parts list are abbreviated as follows in this supplement.
7U:VT-FX770E(UKN), 7N:VT-FX770E(NAV), 65:VT-FX765E(UKN), 6U:VT-FX760E(UKN),
6N:VT-FX760E(NA), 5U:VT-FX750E(UKN), 5N:VT-FX750E(NA), V:VT-FX750E/FX751E/FX752E(VPS),
M:VT-MX730E(UK)
2. For example, [EX 7U, 7N] may be used in place of [EXCEPT 7U, 7N]

1. MECHANICAL PARTS LIST

SYMBOL NO	P-NO	DESCRIPTION
		MECHANISM SECTION
101	QA11163	COVER, TOP (HEPM) [5U, 5N, 65, 6U, 6N]
101	QA11463	COVER, TOP(HEPM) [V, M]
101	QA11853	COVER, TOP(HEPM) [7U, 7N]
102	PH16731	PANEL, FRONT(HEPM) [7U]
102	PH16732	PANEL, FRONT(HEPM) [7N]
102	PH16951	PANEL, FRONT (HEPM) [6U]
102	PH16952	PANEL, FRONT (HEPM) [6N]
102	PH16961	PANEL, FRONT (HEPM) [5U]
102	PH16962	PANEL, FRONT (HEPM) [65]
102	PH16965	PANEL, FRONT (HEPM) [V, 5N]
102	PH16963	PANEL, FRONT (HEPM) [M]
103	PC14932	RING, SHUTTLE
104	PC14942	DIAL, JOG
105	PC14361	KNOB, SHUTTLE (HEPM)
106	NT10486	PIECE, FRONT (HEPM) [EXCEPT 7U, 7N]
106	NT11181	PIECE, FRONT (HEPM) [7U, 7N]
108	KL12071	SPRING
⚠111	EV10541	AC CORD (HEPM) [7N, V, 5N, 6N]
⚠111	EV10551	CORD, POWER (HEPM) [7U, 5U, 65, 6U]
⚠111	EV10491	AC CORD (HEPM) [M]
117	QA11151	COVER, BOTTOM(HEPM) [6U, 6N]
117	QA11152	COVER, BOTTOM(HEPM) [V, 5U, 5N, 65, M]
117	QA11911	COVER, BOTTOM(HEPM) [7U, 7N]
118	MD11281	COVER, CBA
119	PH13721	PANEL, REAR (HEPM) [6U, 6N]
119	PH13723	PANEL, REAR (HEPM) [V, 5U, 5N, 65]
119	PH15362	PANEL, REAR (HEPM) [7U, 7N]
119	PH13724	PANEL, REAR (HEPM) [M]
125	6810651	HOLDER, CBA
126	MN12251	SHEET, INSULATE (HEPM)
127	MD11661	SHEET, SIELD (HEPM)
139	4826834	SPRING, EARTH
203	KX11662	HEAD CLEANING MECHA
205	GP10254	MOTOR, CAPSTAN
206	KX12294	BASE, GUIDE ROLLER (I)
210	KX12302	BASE, GUIDE ROLLER(O)
212	KX11531	ARM, TENSION
213	KL10662	SPRING
214	KX11631	BAND, TENSION
215	KF10641	GEAR, DRIVE
216	KF10701	GEAR, IDLER
217	KX12662	ARM, OUT
218	KX11581	GEAR, SPIRAL
219	KX11554	ARM, PINCH ROLLER
220	KX11451	BASE, CYLINDER
221	KX11944	AC HEAD
223	5423082	FE HEAD
224	KL10711	SPRING
225	KX17881	GEAR, LOADING(L)
226	KX17891	GEAR, LOADING(R)
227	KF10673	GEAR, CAM
228	4344643	WASHER
229	KX17581	PULLEY
230	KX18201	BELT
232	KX12031	BRAKE
233	KF10571	GEAR, CHANGE
234	KL10771	SPRING
235	KX12001	STOPPER, SPRING
236	KF10561	GEAR, IDLER
237	KX11831	ARM, OPERATION
238	KX11362	SLIDER
239	KF10551	GEAR, TRANS
240	KF10501	GEAR, DRIVE
241	KL10773	SPRING
242	KF10513	GEAR, CHANGE
243	KX11411	ARM, CHANGE
244	KX11371	GEAR
245	KX11892	MOTOR, LOADING
246	KF10521	GEAR, IDLER 1
247	KF10532	GEAR, IDLER 2
248	KH10152	REEL, TABLE(S)
249	KX11423	ARM
250	KH10161	REEL, TABLE(T)
251	KX11991	STOPPER
252	KX11861	BRAKE
253	KL10782	SPRING, BRAKE
254	KX11875	BRAKE, L
255	KX11883	BRAKE, R
256	KL10792	SPRING, BRAKE
257	KF10542	GEAR, JOG
258	KX13132	ARM, JOG
259	KX11841	ARM, REC
260	6542485	SPRING
261	KX11811	BRAKE, SUB
262	KL10903	SPRING, SUB
263	KX12461	BRACKET, BASE
264	MN11571	WASHER
265	KL11062	SPRING, JOG
401	KX11773	BRACKET (R)
402	KF10682	GEAR 1
403	KF10691	GEAR 2
404	KX11752	ARM, DOOR
405	KX11761	ARM, SWITCH
406	6323723	SPRING
407	KX11931	ARM, DRIVE
408	KX11922	HOLDER, CASSETTE
409	KX11741	BRACKET(L)
501	HX10292	CYLINDER ASSY (CY-U6S1)
901	8699412	SCREW (3X12) BLACK
902	8679408	SCREW (3.0X8) [EXCEPT 7U, 7N]
902	MK10271	SCREW(3X12DT) [7U, 7N]
903	8671306	SCREW(2.6X6)
904	7781132	BT SCREW
905	7784323	SCREW(3X8)
906	8699410	SCREW(3X10)
951	8652408	SCREW (PSW3X8)
952	0671310	DT SCREW-2.6MMDX10MM
953	8671306	SCREW(2.6X6)
954	8691306	BT SCREW 2.6MM
956	KX12443	SCREW
957	MJ10341	SCREW(M2.6)
958	0671308	DT SCREW-2.6MMDX8MM
959	0671305	DT SCREW-2.6MMDX5MM
		ACCESSARIES
802	HL10953	REMOTE HAND SET(RCU-FX7)(HEPM) [5U, 65, 6U, 6N, M]
802	HL10995	REMOTE HAND SET(RCU-01E)(HEPM) [V, 5N]
802	HL11061	REMOTE HAND SET(VF-RM775E)(HEPM) [7U]
802	HL11062	REMOTE HAND SET(VT-RM776E)(HEPM) [7N]
803	5858315	CABLE (HEPM)

Note 1. The model names shown in the parts list are abbreviated as follows in this supplement.
7U:VT-FX770E(UKN), 7N:VT-FX770E(NAV), 65:VT-FX765E(UKN), 6U:VT-FX760E(UKN),
6N:VT-FX760E(NA), 5U:VT-FX750E(UKN), 5N:VT-FX750E(NA), V:VT-FX750E/FX751E/FX752E(VPS),
M:VT-MX730E(UK)
2. For example, [EX 7U, 7N] may be used in place of [EXCEPT 7U, 7N]
3. Where different value components used for different models have the same symbol no., the model names are shown be abbreviations. However, the model names are not shown for components with a single symbol no. For these components, refer to the difference tables in the schematic and circuit board diagrams.

2. ELECTRICAL PARTS LIST

MAS, RJK BOARD

CAPACITORS

SYMBOL NO	P-NO	DESCRIPTION
C0201	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0202	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0203	0800175	ELECTROLYTIC 1.0UF 50V[EXCEPT 7U, 7N]
C0203	0890046	CERAMIC DISC 0.1UF+80-20% 50V[7U, 7N]
C0206	0800178	ELECTROLYTIC 4.7UF 35V
C0207	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C0208	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0209	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0211	0800138	ELECTROLYTIC 47UF 6.3V
C0213	0254458	ELECTROLYTIC 3.3UF+-20% 50V
C0214	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0215	0800138	ELECTROLYTIC 47UF 6.3V
C0216	0209948	CERAMIC CHIP 330PF+-5% 50V
C0218	0800179	ELECTROLYTIC 10UF 16V
C0219	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0220	0890043	CERAMIC DISC 0.01UF+-20% 16V
C0221	0800112	ELECTROLYTIC 2.2UF 50V
C0222	0893008	CERAMIC CHIP 0.1UF +-10% 16V[EXCE 7U, 7N]
C0222	0893039	CERAMIC CHIP 4700PF+-10% 50V[7U, 7N]
C0223	0800118	ELECTROLYTIC 4.7UF 35V
C0226	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C0227	0800107	ELECTROLYTIC 0.47UF 50V
C0228	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0230	0893002	CERAMIC CHIP 0.033UF+-10% 16V
C0233	0800179	ELECTROLYTIC 10UF 16V
C0234	0800185	ELECTROLYTIC 47UF 6.3V
C0235	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0236	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0237	0893059	CERAMIC CHIP 0.47UF+80-20% 16V
C0238	0800176	ELECTROLYTIC 2.2UF 50V
C0239	0800175	ELECTROLYTIC 1.0UF 50V
C0241	0207444	ELECTROLYTIC 1.0UF 50V
C0242	0800179	ELECTROLYTIC 10UF 16V
C0243	0893059	CERAMIC CHIP 0.47UF+80-20% 16V
C0244	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0245	0800115	ELECTROLYTIC 3.3UF 50V
C0246	0893059	CERAMIC CHIP 0.47UF+80-20% 16V
C0247	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0249	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0250	0209937	CERAMIC CHIP 39PF+-5% 50V
C0251	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0255	0209943	CERAMIC DISC 120PF+-5%
C0256	0209930	CERAMIC CHIP 10PF+-0.5% 50V
C0257	0209925	CERAMIC DISC 5PF+-0.25%
C0259	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0262	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0263	0209935	CERAMIC CHIP 27PF+-5% 50V
C0270	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0273	0209935	CERAMIC CHIP 27PF+-5% 50V
C0278	0209936	CERAMIC CHIP 33PF+-5% 50V
C0292	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0293	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0296	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0297	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0402	0800117	ELECTROLYTIC 4.7UF 25V
C0403	0800185	ELECTROLYTIC 47UF 6.3V
C0404	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0405	0800117	ELECTROLYTIC 4.7UF 25V
C0406	0893035	CERAMIC CHIP 2200PF+-10% 50V
C0407	0800122	ELECTROLYTIC 10UF 16V
C0408	0800122	ELECTROLYTIC 10UF 16V
C0409	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0410	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0411	0800175	ELECTROLYTIC 1.0UF 50V
C0412	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0413	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0414	0800127	ELECTROLYTIC 220UF 10V
C0419	0800117	ELECTROLYTIC 4.7UF 25V
C0420	AN10332R	CAPACITOR 0.027UF+-5% 100V
C0421	0209946	CERAMIC CHIP 220PF+-5% 50V
C0422	0800145	ELECTROLYTIC 100UF 16V
C0424	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0427	0893037	CERAMIC CHIP 3300PF+-10% 50V
C0429	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C0434	0209945	CERAMIC DISC 180PF+-5% 50V
C0435	0209939	CERAMIC CHIP 56PF+-5% 50V
C0436	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0437	0800011	ELECTROLYTIC 4.7UF 35V
C0501	0800127	ELECTROLYTIC 220UF 10V
C0502	0800118	ELECTROLYTIC 4.7UF 35V
C0503	0800118	ELECTROLYTIC 4.7UF 35V
C0504	0800118	ELECTROLYTIC 4.7UF 35V
C0505	0800118	ELECTROLYTIC 4.7UF 35V
C0506	0800135	ELECTROLYTIC 33UF 16V
C0507	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0508	0800112	ELECTROLYTIC 2.2UF 50V
C0509	0800143	ELECTROLYTIC 100UF 6.3V
C0510	0893046	CERAMIC CHIP 0.015UF+-10% 50V
C0511	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0512	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0513	0800139	ELECTROLYITC 47UF 10V
C0514	0893013	CERAMIC CHIP 0.22UF+-10% 16V
C0517	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0518	0893046	CERAMIC CHIP 0.015UF+-10% 50V
C0519	0800143	ELECTROLYTIC 100UF 6.3V
C0520	0800112	ELECTROLYTIC 2.2UF 50V
C0521	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0522	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0523	0800118	ELECTROLYTIC 4.7UF 35V
C0524	0800118	ELECTROLYTIC 4.7UF 35V
C0525	0800118	ELECTROLYTIC 4.7UF 35V
C0526	0800118	ELECTROLYTIC 4.7UF 35V
C0527	0800118	ELECTROLYTIC 4.7UF 35V
C0528	AN00629R	CAPACITOR 0.027UF+-10% 50V
C0529	0800122	ELECTROLYTIC 10UF 16V
C0530	0800122	ELECTROLYTIC 10UF 16V
C0531	0800122	ELECTROLYTIC 10UF 16V
C0532	0800141	ELECTROLYTIC 47UF 16V
C0533	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0534	0800135	ELECTROLYTIC 33UF 16V
C0535	0893046	CERAMIC CHIP 0.015UF+-10% 50V
C0536	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0601	0207441	ELECTROLYTIC 2.2UF 35V
C0604	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C0606	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0607	0209938	CERAMIC CHIP 47PF+-5% 50V
C0608	0209942	CERAMIC CHIP 100PF+-5% 50V
C0609	0800179	ELECTROLYTIC 10UF 16V
C0611	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C0612	0800182	ELECTROLYTIC 22UF 16V
C0614	0893031	CERAMIC CHIP 1000PF+-10% 50V
C0615	0800042	ELECTROLYTIC 47UF 25V
C0621	0890038	CERAMIC DISC 3300PF+-20% 16V
C0623	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0624	0893091	CERAMIC CHIP 0.022UF+-10% 16V

SYMBOL NO	P-NO	DESCRIPTION
C0701	0893053	CERAMIC CHIP 0.047UF+-10% 50V
⚠C0851	AN10201S	FILM CAPACITOR 0.1UF+-20% 250V
C0857	AJ10294	CERAMIC CAPACITOR 4700PF+-20% 125V
C0858	AJ10294	CERAMIC CAPACITOR 4700PF+-20% 125V
C0859	0800206	ELECTROLYTIC 47UF 35V
C0860	AN10401R	CAPACITOR 0.047UF+-10% 250V
C0862	AL10191	ELECTROLYTIC 82UF 400V (HEPM)
C0863	AJ10245R	CERAMIC CHIP 2200PF+-10% 50V
C0865	1143005	CERAMIC CAPACITOR 220PF+-5% 1KV
C0866	0209950	CERAMIC CHIP 470PF+-5% 50V
C0871	0254403	CAPACITOR 22UF+-20% 50V
C0872	0254405	CAPACITOR 1000UF+-20% 25V
C0873	0800354	ELECTROLYTIC 470UF 25V
C0874	AL10481S	ELECTROLYTIC 3300UF 16V
C0875	0800352	ELECTROLYTIC 470UF 10V
C0876	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0877	1143001	CERAMIC CAPACITOR 56PF+-5% 1KV
C0881	0800135	ELECTROLYTIC 33UF 16V
C0882	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0883	0800009	ELECTROLYTIC 4.7UF 25V
C0884	0800015	ELECTROLYTIC 10UF 16V
C0885	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0886	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0887	0890045	CERAMIC DISC 0.047UF+80-20% 50V
C0896	0800122	ELECTROLYTIC 10UF 16V
C0902	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0903	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0904	0217516	CAPACITOR 0.047UF+80-20% 5.5V
C0905	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0906	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0907	0209927	CERAMIC CHIP 7.0PF+-0.5% 50V
C0908	0209927	CERAMIC CHIP 7.0PF+-0.5% 50V
C0909	0209932	CERAMIC CHIP 15PF+-5% 50V
C0910	0209932	CERAMIC CHIP 15PF+-5% 50V
C0912	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0913	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0914	0800033	ELECTROLYTIC 33UF 25V
C0915	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0916	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C0919	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C0922	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0923	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C0924	0209938	CERAMIC CHIP 47PF+-5% 50V
C0925	0209938	CERAMIC CHIP 47PF+-5% 50V
C0926	0209930	CERAMIC CHIP 10PF+-0.5% 50V
C0927	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0940	0209938	CERAMIC CHIP 47PF+-5% 50V
C0941	0893062	CERAMIC CHIP 1UF+80-20% 16V
C0945	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0946	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C0950	0893013	CERAMIC CHIP 0.22UF+-10% 16V
C0951	0893004	CERAMIC CHIP 0.047UF+-10% 16V[7U,7N,V]
C0951	0893053	CERAMIC CHIP 0.047UF+-10% 50V[5U,5N,6S,M]
C0982	0893044	CERAMIC CHIP 0.01UF+-10% 50V[EXCEPT M]
C0982	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W[M]
C1103	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1104	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1105	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1106	0800185	ELECTROLYTIC 47UF 6.3V
C1107	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1108	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1111	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1112	0800177	ELECTROLYTIC 3.3UF 50V
C1114	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1115	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C1116	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1117	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C1119	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1120	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1121	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1122	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C1124	0893031	CERAMIC CHIP 1000PF+-10% 50V
C1125	0800185	ELECTROLYTIC 47UF 6.3V
C1126	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C1138	0209942	CERAMIC CHIP 100PF+-5% 50V
C1139	0209934	CERAMIC CHIP 22PF+-5% 50V
C1140	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1141	0209950	CERAMIC CHIP 470PF+-5% 50V
C1403	0800178	ELECTROLYTIC 4.7UF 35V
C1404	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C1410	0209937	CERAMIC CHIP 39PF+-5% 50V
C1411	0209945	CERAMIC DISC 180PF+-5% 50V
C1412	0800185	ELECTROLYTIC 47UF 6.3V
C1413	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C1414	0800179	ELECTROLYTIC 10UF 16V
C1415	0800178	ELECTROLYTIC 4.7UF 35V
C1419	0209931	CERAMIC CHIP 12PF+-5% 50V
C1422	0209938	CERAMIC CHIP 47PF+-5% 50V
C1423	0800141	ELECTROLYTIC 47UF 16V
C1424	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C1425	0209931	CERAMIC CHIP 12PF+-5% 50V
C1444	0209927	CERAMIC CHIP 7.0PF+-0.5% 50V
C2101	0893031	CERAMIC CHIP 1000PF+-10% 50V
C2102	0893031	CERAMIC CHIP 1000PF+-10% 50V
C2503	0800351	ELECTROLYTIC 470UF 6.3V
C2504	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2507	0800011	ELECTROLYTIC 4.7UF 35V
C2508	0893037	CERAMIC CHIP 3300PF+-10% 50V
C2509	0800041	ELECTROLYTIC 47UF 16V
C2513	0800352	ELECTROLYTIC 470UF 10V
C2514	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2515	0800139	ELECTROLYITC 47UF 10V
C2517	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2518	0800044	ELECTROLYTIC 47UF 50V
C2519	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2520	0800353	ELECTROLYTIC 470UF 16V
C2521	0800041	ELECTROLYTIC 47UF 16V
C2522	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2523	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C2524	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2525	0893008	CERAMIC CHIP 0.1UF +-10% 16V
C2532	0893031	CERAMIC CHIP 1000PF+-10% 50V
C2533	0893031	CERAMIC CHIP 1000PF+-10% 50V
C2534	0207458	ELECTROLYTIC 10UF 25V
C2540	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C2541	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2542	0893044	CERAMIC CHIP 0.01UF+-10% 50V
C2543	0800122	ELECTROLYTIC 10UF 16V
C2544	0893053	CERAMIC CHIP 0.047UF+-10% 50V
C2545	0800179	ELECTROLYTIC 10UF 16V
C2546	0207446	CERAMIC CHIP 10UF+-20% 16V
C2548	0893091	CERAMIC CHIP 0.022UF+-10% 16V
C4501	0890044	CERAMIC DISC 0.022UF+80-20% 25V
C4502	0890044	CERAMIC DISC 0.022UF+80-20% 25V
C4503	0890044	CERAMIC DISC 0.022UF+80-20% 25V
C4504	0800141	ELECTROLYTIC 47UF 16V
C4505	0890044	CERAMIC DISC 0.022UF+80-20% 25V
C4506	0800122	ELECTROLYTIC 10UF 16V
C4507	0800122	ELECTROLYTIC 10UF 16V
C4508	0800122	ELECTROLYTIC 10UF 16V

SYMBOL NO	P-NO	DESCRIPTION
C4509	0800122	ELECTROLYTIC 10UF 16V
C4510	0800122	ELECTROLYTIC 10UF 16V
C4511	0800122	ELECTROLYTIC 10UF 16V
C4512	0800122	ELECTROLYTIC 10UF 16V
C4513	0800141	ELECTROLYTIC 47UF 16V
C4514	0255138	ELECTROLYTIC 470UF 6.3V
C4515	0800109	ELECTROLYTIC 1.0UF 50V
C4517	0255138	ELECTROLYTIC 470UF 6.3V
C4518	0800109	ELECTROLYTIC 1.0UF 50V
C4520	0890044	CERAMIC DISC 0.022UF+80-20% 25V
C4522L	0890035	CERAMIC DISC 1000PF+-10% 50V[EXCEPT M]
C4522L	0890043	CERAMIC DISC 0.01UF+-20% 16V[M]
C4522R	0890035	CERAMIC DISC 1000PF+-10% 50V[EXCEPT M]
C4522R	0890043	CERAMIC DISC 0.01UF+-20% 16V[M]
C4524L	0890032	CERAMIC DISC 560PF+-10% 50V
C4524R	0890032	CERAMIC DISC 560PF+-10% 50V
C4526L	0890035	CERAMIC DISC 1000PF+-10% 50V
C4526R	0890035	CERAMIC DISC 1000PF+-10% 50V
C4528L	0890032	CERAMIC DISC 560PF+-10% 50V
C4528R	0890032	CERAMIC DISC 560PF+-10% 50V
C4530	0890008	CERAMIC DISC 10PF+-5% 50V
C4531	0890018	CERAMIC DISC 56PF+-50% 50V
C4532	0890018	CERAMIC DISC 56PF+-50% 50V
C4534	0800122	ELECTROLYTIC 10UF 16V
C4551	0800122	ELECTROLYTIC 10UF 16V
C4552	0800122	ELECTROLYTIC 10UF 16V
C4553	0800122	ELECTROLYTIC 10UF 16V
C4554	0800122	ELECTROLYTIC 10UF 16V
C4555	0800122	ELECTROLYTIC 10UF 16V
C4556	0800122	ELECTROLYTIC 10UF 16V
C4557	0800122	ELECTROLYTIC 10UF 16V
C4558	0800122	ELECTROLYTIC 10UF 16V
C4559	0800122	ELECTROLYTIC 10UF 16V
C4560	0800122	ELECTROLYTIC 10UF 16V
C4561	0800122	ELECTROLYTIC 10UF 16V
C4562	0800122	ELECTROLYTIC 10UF 16V
C4563	0890045	CERAMIC DISC 0.047UF+80-20% 50V
C4564	0800141	ELECTROLYTIC 47UF 16V
C4565	0800122	ELECTROLYTIC 10UF 16V
C4571L	AN00622R	CAPACITOR 0.0068UF+-10% 50V
C4571R	AN00622R	CAPACITOR 0.0068UF+-10% 50V
C4572L	0800122	ELECTROLYTIC 10UF 16V
C4572R	0800122	ELECTROLYTIC 10UF 16V
C4581	0890018	CERAMIC DISC 56PF+-50% 50V
C4582	0880016	POLYESTER FILM 0.1UF+-10% 50V
C4583	0800122	ELECTROLYTIC 10UF 16V
C4584	AN00615R	CAPACITOR 0.0022UF+-10% 50V
C4585	0880187	CAPACITOR 0.033UF+-5% 50V

RESISTORS

R0212	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0213	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0215	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0216	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0217	0103860	CHIP RESISTOR 27KOHM+-5% 0.1W
R0229	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0230	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0236	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0238	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R0239	0103850	CHIP RESISTOR 3.9KOHM+-5% 0.1W
R0241	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0243	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0253	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0256	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0257	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R0258	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0261	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0263	0103881	CHIP RESISTOR 2.2MOHM+-10% 0.1W
R0264	0105515	CHIP RESISTOR 4.7MOHM+-5% 1/10W
R0269	0103834	CHIP RESISTOR 180OHM+-5% 0.1W
R0402	0103860	CHIP RESISTOR 27KOHM+-5% 0.1W
R0403	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0404	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0407	0103834	CHIP RESISTOR 180OHM+-5% 0.1W
R0408	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R0409	0103873	CHIP RESISTOR 330KOHM+-5% 0.1W
R0410	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0413	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R0414	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0418	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0419	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R0420	0103860	CHIP RESISTOR 27KOHM+-5% 0.1W
R0421	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0422	0103812	CHIP RESISTOR 2.7OHM+-10% 0.1W
R0423	0700058	CARBON FILM 22KOHM+-5% 1/8W
R0424	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0425	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0429	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0430	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0431	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0432	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0434	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R0435	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0436	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0450	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R0501	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0502	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0503	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0504	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0505	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0506	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0507	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0508	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0509	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0510	0104252	CHIP RESISTOR 510 OHM+-5% 1/10W
R0511	AQ10296R	CHIP RESISTOR 15KOHM+-0.1% 1/10W
R0512	AQ10295R	CHIP RESISTOR 11KOHM+-0.1% 1/10W
R0516	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0517	0104252	CHIP RESISTOR 510 OHM+-5% 1/10W
R0518	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0519	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0520	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0521	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0522	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0523	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0524	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0525	0700056	CARBON FILM 15KOHM+-5% 1/8W
R0526	0103839	CHIP RESISTOR 470OHM+-5% 0.1W
R0527	0103839	CHIP RESISTOR 470OHM+-5% 0.1W
R0528	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0529	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0530	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R0531	0103844	CHIP RESISTOR 1.2KOHM+-5% 0.1W
R0532	0700052	CARBON FILM 6.8KOHM+-5% 1/8W
R0533	0103866	CHIP RESISTOR 82KOHM+-5% 0.1W
R0534	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R0602	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0605	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0615	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W

SYMBOL NO	P-NO	DESCRIPTION
R0616	0700072	CARBON FILM 220KOHM+-5% 1/8W
R0621	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0622	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0623	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0624	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0625	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W[EXCE 7U,7N]
R0625	0103848	CHIP RESISTOR 2.7KOHM+-5% 0.1W[7U,7N]
R0629	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R0630	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R0631	0103870	CHIP RESISTOR 180KOHM+-5% 0.1W
R0632	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0633	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R0634	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0635	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0636	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R0637	0103850	CHIP RESISTOR 3.9KOHM+-5% 0.1W
R0701	0700029	CARBON FILM 150 OHM+-5% 1/8W
R0702	0700029	CARBON FILM 150 OHM+-5% 1/8W
R0703	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0705	0103842	CHIP RESISTOR 820 OHM+-5% 0.1W
R0706	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0707	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0708	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0709	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0710	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0711	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0712	0103839	CHIP RESISTOR 4700HM+-5% 0.1W
R0713	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0714	0700029	CARBON FILM 150 OHM+-5% 1/8W
R0715	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R0716	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R0717	0103833	CHIP RESISTOR 150 OHM+-5% 0.1W
R0718	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R0719	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R0720	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R0721	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0852	AT10211M	CHIP RESISTOR 1MOHM 1/2W
R0854	0116671	RESISTOR 100KOHM+-5% 3w
R0855	0116671	RESISTOR 100KOHM+-5% 3w
R0856	AT10261S	RESISTOR 220KOHM+-5% 2W
R0859	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R0860	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R0861	0700038	CARBON FILM 6800HM+-5% 1/8W
R0862	AT10246S	RESISTOR 0.33 OHM+-5% 1W
R0863	0700022	CARBON FILM 390HM+-5% 1/8W
R0864	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0866	0700038	CARBON FILM 6800HM+-5% 1/8W
R0867	0700032	CARBON FILM 220 OHM+-5% 1/8W
R0868	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0869	0104114	CHIP RESISTOR 3.3KOHM+-1% 0.1W
R0870	0105572	METAL FILM RESISTOR 2.7KOHM+-1% 1/10W
R0871	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0872	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R0873	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R0874	0700058	CARBON FILM 22KOHM+-5% 1/8W
R0875	0700035	CARBON FILM 3900HM+-5% 1/8W
R0876	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0877	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R0878	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0879	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0880	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0881	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R0885	0700056	CARBON FILM 15KOHM+-5% 1/8W
R0886	0700056	CARBON FILM 15KOHM+-5% 1/8W
R0887	0700046	CARBON FILM 2.7KOHM+-5% 1/8W

SYMBOL NO	P-NO	DESCRIPTION
R0888	AT10245S	RESISTOR 68 OHM+-5% 2W
R0889	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0890	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0891	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0892	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R0893	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0894	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0895	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0896	0700058	CARBON FILM 22KOHM+-5% 1/8W
R0897	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R0906	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0907	0700053	CARBON FILM 8.2KOHM+-5% 1/8W[7N,6N]
R0907	0700055	CARBON FILM 12KOHM+-5% 1/8W [7U,6S,6U]
R0907	0700057	CARBON FILM 18KOHM+-5% 1/8W [V,5N]
R0907	0700058	CARBON FILM 22KOHM+-5% 1/8W [5U]
R0907	0700062	CARBON FILM 39KOHM+-5% 1/8W [M]
R0908	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0909	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R0910	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0911	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R0913	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0914	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0915	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0916	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0917	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0918	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0919	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0920	0700054	CARBON FILM 10KOHM+-5% 1/8W
R0921	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0922	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0923	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W[EXCE 7U,7N]
R0923	0700041	CARBON FILM 1.0KOHM+-5% 1/8W[7U,7N]
R0924	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R0925	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R0926	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R0928	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0929	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0934	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0935	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R0936	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0937	0103833	CHIP RESISTOR 150 OHM+-5% 0.1W[7U,7N]
R0937	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W[EX 7U,7N]
R0938	0103839	CHIP RESISTOR 4700HM+-5% 0.1W
R0939	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0940	0103839	CHIP RESISTOR 4700HM+-5% 0.1W
R0943	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0944	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0945	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0946	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0947	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0948	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0949	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0957	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R0960	0700063	CARBON FILM 47KOHM+-5% 1/8W
R0964	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0967	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R0968	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R0976	0101725	CHIP RESISTOR 2.2 OHM+-5% 1/4W
R0977	0700067	CARBON FILM 100KOHM+-5% 1/8W
R0978	0101765	RESISTOR 10KOHM+-1% 1/8W
R0983	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0984	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0985	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R0989	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R0991	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W

SYMBOL NO	P-NO	DESCRIPTION
R0993	0103854	CHIP RESISTOR 8.2KOHM+-5% 0.1W
R0995	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R0996	0103854	CHIP RESISTOR 8.2KOHM+-5% 0.1W
R0997	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R0998	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R0999	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R1103	0103820	CHIP RESISTOR 120HM+-5% 0.1W
R1104	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R1120	0103839	CHIP RESISTOR 4700HM+-5% 0.1W
R1121	0103850	CHIP RESISTOR 3.9KOHM+-5% 0.1W
R1409	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R1410	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R1412	0103875	CHIP RESISTOR 470KOHM+-5% 0.1W
R1414	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R1416	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R1418	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R1421	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R1423	0700038	CARBON FILM 6800HM+-5% 1/8W
R1424	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R1429	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R1430	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R1431	0103839	CHIP RESISTOR 4700HM+-5% 0.1W
R1432	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R1446	0209925	CERAMIC DISC 5PF+-0.25%
R2101	0700059	CARBON FILM 27KOHM+-5% 1/8W
R2102	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R2103	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2104	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R2105	0103867	CHIP RESISTOR 47KOHM+-5% 0.1W
R2106	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R2107	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R2108	0103850	CHIP RESISTOR 3.9KOHM+-5% 0.1W
R2109	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R2110	0103850	CHIP RESISTOR 3.9KOHM+-5% 0.1W
R2111	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R2112	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R2113	0103837	CHIP RESISTOR 330 OHM+-5% 0.1W
R2114	0103835	CHIP RESISTOR 220 OHM+-5% 0.1W
R2115	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R2116	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R2117	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R2506	0700036	CARBON FILM 470 OHM+-5% 1/8W
R2507	0103844	CHIP RESISTOR 1.2KOHM+-5% 0.1W[M]
R2507	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W[EXCEPT M]
R2508	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2509	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W[EXCEPT M]
R2509	0103844	CHIP RESISTOR 1.2KOHM+-5% 0.1W[M]
R2510	0103863	CHIP RESISTOR 47KOHM+-5% 0.1W
R2511	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R2512	0103849	CHIP RESISTOR 3.3KOHM+-5% 0.1W
R2514	0101836	CARBON FILM 1.8KOHM+-5% 1/4W
R2518	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R2529	0103833	CHIP RESISTOR 150 OHM+-5% 0.1W
R2530	0103833	CHIP RESISTOR 150 OHM+-5% 0.1W
R2531	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R2532	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R2534	0103850	CHIP RESISTOR 3.9KOHM+-5% 0.1W[EXCEPT M]
R2534	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W[M]
R2535	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R2542	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R2543	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R4501	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R4502	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R4503	1109023	METAL FILM 75 OHM+-50% 1/8W
R4504	1109023	METAL FILM 75 OHM+-50% 1/8W
R4505	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R4506	0700045	CARBON FILM 2.2KOHM+-5% 1/8W
R4507	1109023	METAL FILM 75 OHM+-50% 1/8W
R4508	1109023	METAL FILM 75 OHM+-50% 1/8W
R4510	0700063	CARBON FILM 47KOHM+-5% 1/8W
R4511	0700062	CARBON FILM 39KOHM+-5% 1/8W
R4512L	0700036	CARBON FILM 470 OHM+-5% 1/8W
R4512R	0700036	CARBON FILM 470 OHM+-5% 1/8W
R4514L	0700036	CARBON FILM 470 OHM+-5% 1/8W
R4514R	0700036	CARBON FILM 470 OHM+-5% 1/8W
R4516	0700054	CARBON FILM 10KOHM+-5% 1/8W
R4517	0700054	CARBON FILM 10KOHM+-5% 1/8W
R4518	0700042	CARBON FILM 1.2KOHM+-5% 1/8W
R4521	0700027	CARBON FILM 100 OHM+-5% 1/8W[EXCEPT M]
R4521	0700039	CARBON FILM 820 OHM+-5% 1/8W[M]
R4522	0700027	CARBON FILM 100 OHM+-5% 1/8W
R4571L	0700032	CARBON FILM 220 OHM+-5% 1/8W
R4571R	0700032	CARBON FILM 220 OHM+-5% 1/8W
R4572L	0700063	CARBON FILM 47KOHM+-5% 1/8W
R4572R	0700063	CARBON FILM 47KOHM+-5% 1/8W
R4573L	0700032	CARBON FILM 220 OHM+-5% 1/8W
R4573R	0700032	CARBON FILM 220 OHM+-5% 1/8W
R4584	0700081	CARBON FILM 1.0MOHM+-5% 1/8W
R4585	0101970	CARBON FILM 1200KOHM+-5% 1/8W
R4587	0700067	CARBON FILM 100KOHM+-5% 1/8W
R4588	0101970	CARBON FILM 1200KOHM+-5% 1/8W
R4589	0700052	CARBON FILM 6.8KOHM+-5% 1/8W
R4590	0700052	CARBON FILM 6.8KOHM+-5% 1/8W
		SEMI-CONDUCTORS
D0206	5339071	DIODE 1SS119
D0207	5339071	DIODE 1SS119
D0401	5339071	DIODE 1SS119
⚠D0851	5336552	DIODE S1WBA60
D0852	CH10191M	DIODE EG01C-T
D0853	CH10481M	DIODE AG01Z
D0854	CH10481M	DIODE AG01Z
D0855	CH10481M	DIODE AG01Z
D0871	5339592	DIODE D1NL40
D0872	CH10462S	DIODE S3L20U
D0873	CH10641S	DIODE D3S6M
D0876	5339551	DIODE SS1J4
D0877	5339551	DIODE SS1J4
D0878	5339071	DIODE 1SS119
D0896	CH10871M	DIODE 1N4001
D0897	CH10871M	DIODE 1N4001
D0898	CH10871M	DIODE 1N4001
D0901	5339551	DIODE SS1J4
D0906	5339071	DIODE 1SS119
D0907	5339071	DIODE 1SS119
D0908	5339071	DIODE 1SS119
D0909	5339071	DIODE 1SS119
D0912	CH10871M	DIODE 1N4001
D0913	CH10871M	DIODE 1N4001
D1103	5339071	DIODE 1SS119
D1403	5339071	DIODE 1SS119
D2501	5339071	DIODE 1SS119
D2502	5339071	DIODE 1SS119
D2503	5339071	DIODE 1SS119
D2505	5339071	DIODE 1SS119
D4501	5339071	DIODE 1SS119
LD2101	CH10542	DIODE GL451L1
IC0201	CK21372	IC HA118211AF(HEPM)
IC0501	CK14421	IC AN3964FB

SYMBOL NO	P-NO	DESCRIPTION
IC0851	CP12461F	IC STR-F6653 (HEPM)
IC0871	CP11961R	IC HA17431PA
IC0901	CK21203	IC HD6433977SC10F (HEPM) [5U, 6S, 6U]
IC0901	CK21204	IC HD6433977SC11F (HEPM) [V, 5N, 6N]
IC0901	CK21205	IC HD6433977SC13F (HEPM) [7U, 7N]
IC0901	CK21206	IC HD6433977SC14F (HEPM) [M]
IC0902	CP10312R	IC PST9129
IC0903	CP10915	IC ST24C02FB [7U, 7N]
IC0903	CP11013	IC AT24C04-10PC (HEPM) [EXCEPT 7U, 7N]
IC0904	CP10291	IC BA6209
IC0905	CP11361R	IC M5278L05
IC1102	CK20671R	IC AN3329S-E1
IC2101	CJ10391	SENSOR SG-HT10 (T)
IC2102	CJ10401	SENSOR SG-HT11 (S)
IC2501	CP12231	IC NJM2534D (HEPM)
IC4501	CP11612	IC BH7633AS (HEPM)
IC4551	CP10351	IC LA7151
IC4552	CP10351	IC LA7151
IC4581	CP10642	IC SDA5650 (HEPM)
⚠ PC0851	CF10431G	PHOTO COUPLER PC123FY
⚠ PC0852	CF10431G	PHOTO COUPLER PC123FY
Q0202	5326903	TRANSISTOR UN2213
Q0219	5326903	TRANSISTOR UN2213
Q0222	5326903	TRANSISTOR UN2213
Q0229	5326903	TRANSISTOR UN2213
Q0232	5326903	TRANSISTOR UN2213
Q0234	5326904	TRANSISTOR UN2113
Q0403	CA10672R	TRANSISTOR 2SD601A
Q0405	CA10582R	TRANSISTOR 2SB709A
Q0406	5323172	TRANSISTOR 2SC1214CD
Q0411	CA10582R	TRANSISTOR 2SB709A
Q0412	CA10672R	TRANSISTOR 2SD601A
Q0413	CA10672R	TRANSISTOR 2SD601A
Q0701	1323082	TRANSISTOR 2SA1036K
Q0702	CA10672R	TRANSISTOR 2SD601A
Q0853	1321341	TRANSISTOR 2SD1765
Q0859	CA10672R	TRANSISTOR 2SD601A
Q0871	5326903	TRANSISTOR UN2213
Q0873	5327063	TRANSISTOR 2SC1740S
Q0874	5327262	TRANSISTOR 2SB1326
Q0875	CA10672R	TRANSISTOR 2SD601A
Q0876	5327262	TRANSISTOR 2SB1326
Q0877	CA10672R	TRANSISTOR 2SD601A
Q0878	5327262	TRANSISTOR 2SB1326
Q0879	5327021	TRANSISTOR 2SA844CD
Q0880	1321341	TRANSISTOR 2SD1765
Q0896	CF10451R	TRANSISTOR 2SC3246
Q0901	5327261	TRANSISTOR 2SB1326 (Q)
Q0902	5326903	TRANSISTOR UN2213
Q0909	5326903	TRANSISTOR UN2213
Q0913	5326903	TRANSISTOR UN2213
Q0914	5326903	TRANSISTOR UN2213
Q1104	5326903	TRANSISTOR UN2213
Q1404	CA10582R	TRANSISTOR 2SB709A
Q1407	CA10582R	TRANSISTOR 2SB709A
Q1408	CA10582R	TRANSISTOR 2SB709A
Q1409	5326903	TRANSISTOR UN2213
Q1410	CA10582R	TRANSISTOR 2SB709A
Q2101	CF10372	TRANSISTOR PT493FL1
Q2102	CF10372	TRANSISTOR PT493FL1
Q2103	5326903	TRANSISTOR UN2213
Q2104	5326903	TRANSISTOR UN2213
Q2501	CA10672R	TRANSISTOR 2SD601A
Q2502	CA10672R	TRANSISTOR 2SD601A
Q2503	CA10672R	TRANSISTOR 2SD601A
Q2505	5326903	TRANSISTOR UN2213
Q2506	5327021	TRANSISTOR 2SA844CD
Q2508	CA10672R	TRANSISTOR 2SD601A
Q2510	5326903	TRANSISTOR UN2213
Q2511	5326904	TRANSISTOR UN2113
Q4501	5327031	TRANSISTOR 2SA673 (C)
Q4502	5327073	TRANSISTOR DTC144ES
Q4503	5327141	TRANSISTOR 2SD468C
⚠ QF0871	5721946	PROTECTOR, ICP-N15
⚠ QF0872	5721944	IC PROTECTOR, ICP-N25
⚠ QF0873	5721943	IC PROTECTOR
⚠ QF4501	5721941	IC PROTECTOR
ZD0871	5339468	DIODE HZS11B3
ZD0872	5339482	DIODE HZS15-2
ZD0896	5339464	DIODE HZS12A3
ZD0901	5339275	DIODE HZS7-B2
ZD0903	5339297	DIODE HZS5C3
ZD2501	5339288	DIODE HZS30-3
ZD4501	5339277	DIODE HZS6A2
ZD4502	5339293	DIODE HZS12B2
		TRANSFORMER
T0401	BT10251	TRANSFORMER, POWER
⚠ T0851	BT10481	TRANSFORMER, POWER
		COILS
L0201	5159142	CHOKE COIL 12UH
L0202	0770057	CHOKE COIL 100UH+-5%
L0205	0770057	CHOKE COIL 100UH+-5%
L0207	5159153	CHOKE COIL 82UH
L0208	0770057	CHOKE COIL 100UH+-5%
L0210	5159146	CHOKE COIL 27UH
L0401	0770057	CHOKE COIL 100UH+-5%
L0403	0770057	CHOKE COIL 100UH+-5%
L0501	0770048	CHOKE COIL 22UH+-5%
⚠ L0851	BJ10251	FILTER, LC
L0871	BH00201R	COIL 10UH
L0872	BH00205R	COIL 22UH
L0901	0770057	CHOKE COIL 100UH+-5%
L1101	5121611	COIL
L1102	0770057	CHOKE COIL 100UH+-5%
L1105	5121296	COIL 220UH
L1402	5121288	COIL 15UH
L2501	0770053	CHOKE COIL 47UH+-5%
L2502	0770057	CHOKE COIL 100UH+-5%
L2504	0770052	COIL, CHOKE 39UH+-5%
L2505	0770057	CHOKE COIL 100UH+-5%
L2507	0770053	CHOKE COIL 47UH+-5%
L4501	0770057	CHOKE COIL 100UH+-5%
L4502	0770057	CHOKE COIL 100UH+-5%
L4551	0770057	CHOKE COIL 100UH+-5%
L4581	0770057	CHOKE COIL 100UH+-5%
		CRYSTALS
X0202	BP10541	CRYSTAL (HEPM)
X0901	BP10571	CRYSTAL
X0902	BP10251	CRYSTAL
X1401	BP10573	CRYSTAL (HEPM)
		MISCELLANEOUS
BL0601	BZ10471R	CORE

SYMBOL NO	P-NO	DESCRIPTION
BL0602	BZ10471R	CORE
BL0603	BZ10471R	CORE
BL0604	5272376	FILTER
BL0851	BZ10471R	CORE
BL0852	BZ10471R	CORE
BL0853	BZ10471R	CORE
BL0854	BZ10471R	CORE
BL0871	BZ10471R	CORE
BL0872	BZ10471R	CORE
BL0873	BZ10471R	CORE
BL0874	5274522	CORE
BL2501	BZ10471R	CORE
BL2502	BZ10471R	CORE
BL4501L	BZ10471R	CORE
BL4501R	BZ10471R	CORE
BL4502L	BZ10471R	CORE
BL4502R	BZ10471R	CORE
BL4503L	BZ10471R	CORE
BL4503R	BZ10471R	CORE
BL4504L	BZ10471R	CORE
BL4504R	BZ10471R	CORE
BL4571L	BZ10471R	CORE
BL4571R	BZ10471R	CORE
⚠ F0851	5721061	FUSE 1.6A
FE2501	HC10351	TUNER IF UNIT (HEPM) [7U, 5U, 65, 6U, M]
FE2501	HC10352	TUNER IF UNIT (HEPM) [7N, V, 5N, 6N]
⚠ FH0851	5722413	HOLDER, FUSE (HEPM)
⚠ FH0852	5722413	HOLDER, FUSE (HEPM)
J4501	EQ10261	JACK
J4502	EQ10262	JACK
J4571	ES10391	JACK (HEPM)
JK2503	ES10373	JACK (HEPM)
S0704	FE10141R	SWITCH
S0706	FE10141R	SWITCH
S0707	FE10141R	SWITCH
S0708	5636101	SWITCH
S0709	FE10141R	SWITCH
S0710	FE10141R	SWITCH
S0711	FE10141R	SWITCH
S0712	FE10142R	SWITCH
S2101	FD10211	SWITCH, MODE
S2102	5635631	SWITCH
S2103	5635631	SWITCH

N&A BOARD (FOR UKN, NA, NAV)

CAPACITORS

C1801	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1803	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1805	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1807	0880019	POLYESTER FILM 0.33UF+-10% 50V
C1808	0893083	CHIP CERAMIC 0.033UF 50V
C1809	0209932	CERAMIC CHIP 15PF+-5% 50V
C1810	0209933	CERAMIC CHIP 18PF+-5% 50V
C1812	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1814	0893027	CERAMIC CHIP 0.1UF+-10% 25V
C1815	0209896	CERAMIC CHIP 47PF+-5% 50V
C1816	0800279	CAPACITOR 1.0UF+-20% 50V
C1817	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1819	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1821	0800291	ELECTROLYTIC 10UF 16V
C1822	0800316	ELECTROLYTIC 47UF 10V
C1824	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C1825	0800316	ELECTROLYTIC 47UF 10V
C1826	0893004	CERAMIC CHIP 0.047UF+-10% 16V
C1827	0800316	ELECTROLYTIC 47UF 10V
C1828	0893004	CERAMIC CHIP 0.047UF+-10% 16V
C1851L	0800291	ELECTROLYTIC 10UF 16V
C1851R	0800291	ELECTROLYTIC 10UF 16V
C1852L	0209853	CERAMIC DISC 68PF+-5% 50V
C1852R	0209853	CERAMIC DISC 68PF+-5% 50V
C1853L	0800291	ELECTROLYTIC 10UF 16V
C1853R	0800291	ELECTROLYTIC 10UF 16V
C1854L	0800291	ELECTROLYTIC 10UF 16V
C1854R	0800291	ELECTROLYTIC 10UF 16V
C1855L	0893037	CERAMIC CHIP 3300PF+-10% 50V
C1855R	0893037	CERAMIC CHIP 3300PF+-10% 50V
C1861	0893004	CERAMIC CHIP 0.047UF+-10% 16V
C1862	0893008	CERAMIC CHIP 0.1UF +-10% 16V

RESISTORS

R1802	0103862	CHIP RESISTOR 39KOHM+-5% 0.1W
R1803	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R1804	0103862	CHIP RESISTOR 39KOHM+-5% 0.1W
R1805	0103854	CHIP RESISTOR 8.2KOHM+-5% 0.1W
R1806	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R1807	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R1813	0103860	CHIP RESISTOR 27KOHM+-5% 0.1W
R1816	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R1817	0700053	CARBON FILM 8.2KOHM+-5% 1/8W
R1851L	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R1851R	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R1852L	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R1852R	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R1853L	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R1853R	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R1854L	0103868	CHIP RESISTOR 120KOHM+-5% 0.1W
R1854R	0103868	CHIP RESISTOR 120KOHM+-5% 0.1W
R1855L	0103862	CHIP RESISTOR 39KOHM+-5% 0.1W
R1855R	0103862	CHIP RESISTOR 39KOHM+-5% 0.1W
R1856L	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R1856R	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R1857L	0103832	CHIP RESISTOR 120OHM+-5% 0.1W
R1857R	0103832	CHIP RESISTOR 120OHM+-5% 0.1W

SEMI-CONDUCTORS

D1801	CC11071R	DIODE HVU202A
IC1801	CK21161	IC TDA9874H (HEPM)
IC1802	5352714	IC NJM4558M

COILS

L1802	0770048	CHOKE COIL 22UH+-5%
L1803	0770057	CHOKE COIL 100UH+-5%
L1805	5121284	COIL 3.3UH
L1851L	5159113	COIL, CHOKE 8.2MH
L1851R	5159113	COIL, CHOKE 8.2MH

CRYSTAL

X1801	BP10821	CRYSTAL

MISCELLANEOUS

BL1801	BM00154R	COIL
BL1802	BM00154R	COIL

SYMBOL NO	P-NO	DESCRIPTION
		A2 BOARD (FOR VPS)
		CAPACITORS
C1857	0800185	ELECTROLYTIC 47UF 6.3V
C1858	0890043	CERAMIC DISC 0.01UF+-20% 16V
C1860	0800176	ELECTROLYTIC 2.2UF 50V
C1861	0800176	ELECTROLYTIC 2.2UF 50V
C1862	0800178	ELECTROLYTIC 4.7UF 35V
C1863	0800178	ELECTROLYTIC 4.7UF 35V
C1864	0800015	ELECTROLYTIC 10UF 16V
C1865	0800179	ELECTROLYTIC 10UF 16V
C1871	0800176	ELECTROLYTIC 2.2UF 50V
C1872	0800176	ELECTROLYTIC 2.2UF 50V
C1873	AJ10176R	CERAMIC CAPACITOR 5.0PF+-0.25% 50V
C1874	0890043	CERAMIC DISC 0.01UF+-20% 16V
C1876	0890043	CERAMIC DISC 0.01UF+-20% 16V
C1879	0800176	ELECTROLYTIC 2.2UF 50V
C1881	0890045	CERAMIC DISC 0.047UF+80-20% 50V
C1882	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C1890	0890043	CERAMIC DISC 0.01UF+-20% 16V
C1891	0890043	CERAMIC DISC 0.01UF+-20% 16V
C1895	0890025	CERAMIC DISC 180PF+-10% 50V
C1896	0800187	ELECTROLYTIC 100UF 6.3V
C1897	0890036	CERAMIC DISC 1500PF+-20% 16V
C1898	0800179	ELECTROLYTIC 10UF 16V
C1899	0890046	CERAMIC DISC 0.1UF+80-20% 50V
		RESISTORS
R1864	0700034	CARBON FILM 3300HM+-5% 1/8W
R1865	0700034	CARBON FILM 3300HM+-5% 1/8W
R1870	0700038	CARBON FILM 6800HM+-5% 1/8W
R1871	0700037	CARBON FILM 5600HM+-5% 1/8W
R1872	0700031	CARBON FILM 1800HM+-5% 1/8W
R1873	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1874	0700037	CARBON FILM 5600HM+-5% 1/8W
R1875	0700028	CARBON FILM 1200HM+-5% 1/8W
R1876	0700028	CARBON FILM 1200HM+-5% 1/8W
R1877	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1878	0700059	CARBON FILM 27KOHM+-5% 1/8W
R1899	0700059	CARBON FILM 27KOHM+-5% 1/8W
		SEMI-CONDUCTORS
IC1871	CK14551	IC TDA9840T
IC1872	1346191	IC TDA9821
		COILS
L1871	0770057	CHOKE COIL 100UH+-5%
L1872	5159111	CHOKE COIL 5600UH
		CRYSTAL
X1871	BP10571	CRYSTAL
		MISCELLANEOUS
CF1871	5160561	FILTER
CF1872	5160562	FILTER
		LCJ BOARD(FOR FX770E)
		CAPACITORS
C1701	0800185	ELECTROLYTIC 47UF 6.3V
C1702	0890045	CERAMIC DISC 0.047UF+80-20% 50V
C1703	0890045	CERAMIC DISC 0.047UF+80-20% 50V
C1704	0890045	CERAMIC DISC 0.047UF+80-20% 50V
C1705	0890035	CERAMIC DISC 1000PF+-10% 50V
C1706	0800185	ELECTROLYTIC 47UF 6.3V
C1707	0800112	ELECTROLYTIC 2.2UF 50V
		RESISTORS
R1701	0700036	CARBON FILM 470 OHM+-5% 1/8W
R1702	0700036	CARBON FILM 470 OHM+-5% 1/8W
R1703	0700038	CARBON FILM 6800HM+-5% 1/8W
R1704	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1705	0700067	CARBON FILM 100KOHM+-5% 1/8W
R1719	0700054	CARBON FILM 10KOHM+-5% 1/8W
R1720	0700051	CARBON FILM 5.6KOHM+-5% 1/8W
R1721	0700039	CARBON FILM 8200HM+-5% 1/8W
R1722	0700048	CARBON FILM 3.9KOHM+-5% 1/8W
R1723	0700037	CARBON FILM 5600HM+-5% 1/8W
R1724	0700047	CARBON FILM 3.3KOHM+-5% 1/8W
R1725	0700045	CARBON FILM 2.2KOHM+-5% 1/8W
R1726	0700035	CARBON FILM 3900HM+-5% 1/8W
R1727	0700044	CARBON FILM 1.8KOHM+-5% 1/8W
R1728	0700054	CARBON FILM 10KOHM+-5% 1/8W
R1729	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1730	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1731	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1732	0700063	CARBON FILM 47KOHM+-5% 1/8W
R1733	0700034	CARBON FILM 3300HM+-5% 1/8W
R1735	0700033	CARBON FILM 2700HM+-5% 1/8W
		SEMI-CONDUCTORS
D1701	5339071	DIODE 1SS119
D1702	CH11171M	DIODE AK04
IC1701	CZ10182	IC BU9716AK (HEPM)
LD1701	CH11141R	DIODE SEL6414E (HEPM)
LD1702	CH11141R	DIODE SEL6414E (HEPM)
LD1703	CH11141R	DIODE SEL6414E (HEPM)
LD1704	CH11141R	DIODE SEL6414E (HEPM)
LD1705	CH11141R	DIODE SEL6414E (HEPM)
LD1706	CH11231R	DIODE SEL5220STH8F(HEPM)
LD1708	CH10472R	DIODE SEL6410E
Q1702	5327063	TRANSISTOR 2SC1740S
Q1703	CF10851R	TRANSISTOR DTC124ESA(HEPM)
Q1704	CF10851R	TRANSISTOR DTC124ESA(HEPM)
Q1706	CF10851R	TRANSISTOR DTC124ESA(HEPM)
		COIL
L1701	0770057	CHOKE COIL 100UH+-5%
		MISCELLANEOUS
IR1701	CJ10341	MODULE PIC-21043TE3 (HEPM)
LCD1701	DB10371	DISPLAY,LIQUID CRYSTAL (HEPM)
LMP1701	DP10221	LIGHT,BACK
LMP1702	DP10221	LIGHT,BACK
LMP1703	DP10221	LIGHT,BACK
LMP1704	DP10221	LIGHT,BACK
S1710	5634884	SWITCH
S1711	5634884	SWITCH
S1712	5634884	SWITCH

SYMBOL NO	P-NO	DESCRIPTION
S1713	5634884	SWITCH
S1714	5634884	SWITCH
S1715	5634884	SWITCH
S1719	5634884	SWITCH
		FST BOARD(FOR FX770E)
		CAPACITORS
C2701	AJ10241R	CERAMIC CAPACITOR 100PF+-10% 50V
C2702	AJ10241R	CERAMIC CAPACITOR 100PF+-10% 50V
C2703	0890046	CERAMIC DISC 0.1UF+80-20% 50V
C2704	0890044	CERAMIC DISC 0.022UF+80-20% 25V
		RESISTORS
R2701	0700057	CARBON FILM 18KOHM+-5% 1/8W
R2702	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2703	0700057	CARBON FILM 18KOHM+-5% 1/8W
R2704	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2706	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2707	0700039	CARBON FILM 8200HM+-5% 1/8W
R2708	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2709	0700027	CARBON FILM 100 OHM+-5% 1/8W
R2710	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2711	0700032	CARBON FILM 220 OHM+-5% 1/8W
R2712	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2713	0700029	CARBON FILM 150 OHM+-5% 1/8W
R2714	0700043	CARBON FILM 1.5KOHM+-5% 1/8W
R2715	0700052	CARBON FILM 6.8KOHM+-5% 1/8W
R2716	0700067	CARBON FILM 100KOHM+-5% 1/8W
R2717	0700067	CARBON FILM 100KOHM+-5% 1/8W
R2718	0700067	CARBON FILM 100KOHM+-5% 1/8W
R2719	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2720	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2721	0700067	CARBON FILM 100KOHM+-5% 1/8W
R2722	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2723	0700063	CARBON FILM 47KOHM+-5% 1/8W
R2724	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R2725	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R2727	0700063	CARBON FILM 47KOHM+-5% 1/8W
R2728	0700063	CARBON FILM 47KOHM+-5% 1/8W
		SEMI-CONDUCTORS
IC2701	CK12311	IC UPD17103GS-752
LD2701	CH11131	DIODE LF60 (HEPM)
Q2701	CF10852R	TRANSISTOR DTC144ESA
Q2702	CF10852R	TRANSISTOR DTC144ESA
		CRYSTAL
X2701	BP10451G	CRYSTAL
		MISCELLANEOUS
S2701	5634884	SWITCH
S2704	5634884	SWITCH
S2706	5634884	SWITCH
S2708	5634884	SWITCH
S2709	5634884	SWITCH
S2721	FH10231	SWITCH
		LCD BOARD(FX75xE/FX76xE/MX730E)

SYMBOL NO	P-NO	DESCRIPTION
		CAPACITORS
C1701	0800185	ELECTROLYTIC 47UF 6.3V
C1702	0890103	CERAMIC DISC 47000PF+80-20% 12V
C1703	0890103	CERAMIC DISC 47000PF+80-20% 12V
C1704	0890103	CERAMIC DISC 47000PF+80-20% 12V
C1705	0890035	CERAMIC DISC 1000PF+-10% 50V
C1706	0800185	ELECTROLYTIC 47UF 6.3V
		RESISTORS
R1701	0700054	CARBON FILM 10KOHM+-5% 1/8W
R1702	0700063	CARBON FILM 47KOHM+-5% 1/8W
R1703	0700032	CARBON FILM 220 OHM+-5% 1/8W
R1703	0700039	CARBON FILM 8200HM+-5% 1/8W
R1704	0700032	CARBON FILM 220 OHM+-5% 1/8W[V,5U,5N,M]
R1704	0700039	CARBON FILM 8200HM+-5% 1/8W [65,6U,6N]
R1708	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1709	0700034	CARBON FILM 3300HM+-5% 1/8W[5U,M]
R1709	0700038	CARBON FILM 6800HM+-5% 1/8W[V,5N]
R1710	0700034	CARBON FILM 3300HM+-5% 1/8W[5U,M]
R1710	0700038	CARBON FILM 6800HM+-5% 1/8W[V,5N]
R1711	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1712	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1713	0700049	CARBON FILM 4.7KOHM+-5% 1/8W
R1714	0700033	CARBON FILM 2700HM+-5% 1/8W
		SEMI-CONDUCTORS
D1701	5339071	DIODE 1SS119
LD1701	CH11141R	DIODE SEL6414E (HEPM)
LD1702	CH11141R	DIODE SEL6414E (HEPM)
LD1703	CH11141R	DIODE SEL6414E (HEPM)
LD1704	CH11141R	DIODE SEL6414E (HEPM)
IC1701	CZ10182	IC BU9716AK (HEPM)
IR1701	CJ10411	IC TSOP1738SB1
Q1701	5327071	TRANSISTOR DTC124ES
Q1702	5327071	TRANSISTOR DTC124ES
		MISCELLANEOUS
LCD1701	DB10341	FLOURESENT DISPLAY
LMP1701	DP10221	LIGHT,BACK
LMP1702	DP10221	LIGHT,BACK
LMP1703	DP10221	LIGHT,BACK
S1701	5634884	SWITCH
		SHU BOARD(FX760E/FX750E(UKN))
		RESISTORS
R2701	0700057	CARBON FILM 18KOHM+-5% 1/8W
R2702	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2703	0700057	CARBON FILM 18KOHM+-5% 1/8W
R2704	0700054	CARBON FILM 10KOHM+-5% 1/8W
R2705	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2706	0700039	CARBON FILM 8200HM+-5% 1/8W
R2707	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2708	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2709	0700027	CARBON FILM 100 OHM+-5% 1/8W
R2710	0700041	CARBON FILM 1.0KOHM+-5% 1/8W
R2711	0700032	CARBON FILM 220 OHM+-5% 1/8W
R2712	0700043	CARBON FILM 1.5KOHM+-5% 1/8W
R2713	0700029	CARBON FILM 150 OHM+-5% 1/8W
R2714	0700044	CARBON FILM 1.8KOHM+-5% 1/8W

SYMBOL NO	P-NO	DESCRIPTION
		SEMI-CONDUCTOR
LD2701	CH10791	DIODE SLP932C-20
		MISCELLANEOUS
S2701	FH10271	SWITCH
S2702	5634884	SWITCH
S2703	5634884	SWITCH
S2704	5634884	SWITCH
S2705	5634884	SWITCH
S2706	5634884	SWITCH
S2707	5634884	SWITCH
S2710	5634884	SWITCH
S2712	5634884	SWITCH
S2713	5634884	SWITCH
S2714	5634884	SWITCH
S2715	5634884	SWITCH
S2716	5634884	SWITCH
		NCM BOARD (FOR FX770E)
		CAPACITORS
C4103	0800109	ELECTROLYTIC 1.0UF 50V
C4104	0209927	CERAMIC CHIP 7.0PF+-0.5% 50V
C4105	0209933	CERAMIC CHIP 18PF+-5% 50V
C4106	0209936	CERAMIC CHIP 33PF+-5% 50V
C4107	0209935	CERAMIC CHIP 27PF+-5% 50V
C4110	0800122	ELECTROLYTIC 10UF 16V
C4111	0893093	CERAMIC CHIP 2.2UF+80-20% 16V
C4112	0893093	CERAMIC CHIP 2.2UF+80-20% 16V
C4120	0209897	CERAMIC CHIP 56PF+-5% 50V
C4121	0893014	CERAMIC CHIP 0.01UF+-10% 25V
C4123	0800135	ELECTROLYTIC 33UF 16V
C4124	0893014	CERAMIC CHIP 0.01UF+-10% 25V
C4128	0800122	ELECTROLYTIC 10UF 16V
C4129	0800109	ELECTROLYTIC 1.0UF 50V
C4130	0893086	CERAMIC CHIP 0.1UF+80-20% 50V
C4131	0800128	ELECTROLYTIC 22UF 16V
C4132	0207445	ELECTROLYTIC 4.7UF 16V
C4216	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C4217	0800122	ELECTROLYTIC 10UF 16V
C4301	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C4302	0893062	CERAMIC CHIP 1UF+80-20% 16V
C4303	0893031	CERAMIC CHIP 1000PF+-10% 50V
C4304	0209945	CERAMIC DISC 180PF+-5% 50V
C4305	0893086	CERAMIC CHIP 0.1UF+80-20% 50V
C4307	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C4308	0202163	CERAMIC CAPACITOR 560PF+-5% 50V
C4309	0800115	ELECTROLYTIC 3.3UF 50V
C4310	0893037	CERAMIC CHIP 3300PF+-10% 50V
C4311	0893062	CERAMIC CHIP 1UF+80-20% 16V
C4312	0800122	ELECTROLYTIC 10UF 16V
C4313	0893086	CERAMIC CHIP 0.1UF+80-20% 50V
C4314	0202163	CERAMIC CAPACITOR 560PF+-5% 50V
C4315	0202163	CERAMIC CAPACITOR 560PF+-5% 50V
C4316	0893062	CERAMIC CHIP 1UF+80-20% 16V
C4317	0209942	CERAMIC CHIP 100PF+-5% 50V
C4318	0800351	ELECTROLYTIC 470UF 6.3V
C4319	0893079	CERAMIC DISC 0.01UF+80-20% 50V
C4322	0800365	ELECTROLYTIC 2200UF 6V
C4323	0893048	CERAMIC CHIP 0.022UF+-10% 50V
C4329	0893014	CERAMIC CHIP 0.01UF+-10% 25V

SYMBOL NO	P-NO	DESCRIPTION
		RESISTORS
R4101	0103836	CHIP RESISTOR 270 OHM+-5% 0.1W
R4105	0103853	CHIP RESISTOR 6.8KOHM+-5% 0.1W
R4106	0103846	CHIP RESISTOR 1.8KOHM+-5% 0.1W
R4108	0103875	CHIP RESISTOR 470KOHM+-5% 0.1W
R4113	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R4114	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R4123	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4129	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R4130	0103842	CHIP RESISTOR 820 OHM+-5% 0.1W
R4132	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R4133	0103841	CHIP RESISTOR 680 OHM+-5% 0.1W
R4134	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4137	0104271	CHIP RESISTOR 15KOHM+-1% 1/10W
R4138	0104112	CHIP RESISTOR 47KOHM+-1% 0.1W
R4140	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R4141	0103857	CHIP RESISTOR 15KOHM+-5% 0.1W
R4148	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R4149	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R4215	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R4216	0103867	CHIP RESISTOR 100KOHM+-5% 0.1W
R4301	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4303	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
R4304	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4305	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4307	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4309	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4310	0103848	CHIP RESISTOR 2.7KOHM+-5% 0.1W
R4316	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4317	0103839	CHIP RESISTOR 470OHM+-5% 0.1W
R4322	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R4323	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4328	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4329	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4330	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4331	0103831	CHIP RESISTOR 100 OHM+-5% 0.1W
R4335	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R4336	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R4337	0103861	CHIP RESISTOR 33KOHM+-5% 0.1W
R4338	0105147	CHIP RESISTOR 100KOHM+-1% 1/10W
R4339	0103866	CHIP RESISTOR 82KOHM+-5% 0.1W
R4340	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4341	0103869	CHIP RESISTOR 150KOHM+-5% 0.1W
R4342	0700027	CARBON FILM 100 OHM+-5% 1/8W
R4344	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4345	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R4346	0103859	CHIP RESISTOR 22KOHM+-5% 0.1W
R4347	0103838	RESISTOR CHIP 390OHM+-5% 0.1W
R4348	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R4349	0103834	CHIP RESISTOR 180OHM+-5% 0.1W
R4350	0103840	CHIP RESISTOR 560 OHM+-5% 0.1W
R4351	0103879	CHIP RESISTOR 1MOHM+-5% 0.1W
R4352	0103839	CHIP RESISTOR 470OHM+-5% 0.1W
R4353	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4354	0103852	CHIP RESISTOR 5.6KOHM+-5% 0.1W
R4363	0103845	CHIP RESISTOR 1.5KOHM+-5% 0.1W
R4364	0103847	CHIP RESISTOR 2.2KOHM+-5% 0.1W
R4365	0103851	CHIP RESISTOR 4.7KOHM+-5% 0.1W
R4368	0103843	CHIP RESISTOR 1KOHM+-5% 0.1W
R4369	0103855	CHIP RESISTOR 10KOHM+-5% 0.1W
		SEMI-CONDUCTORS

SYMBOL NO	P-NO	DESCRIPTION
D4101	5339071	DIODE 1SS119
D4102	5339071	DIODE 1SS119
D4301	CH11171M	DIODE AK04
D4302	5339071	DIODE 1SS119
D4303	5339071	DIODE 1SS119
IC4101	CK15468R	IC MB90089-214(HEPM)
IC4102	CK13503R	IC NJM2535M
IC4103	1352032	IC NJM2249M
IC4301	CP12218	IC M37272M8-117SP(HEPM)
IC4302	CK14883	IC AT24C16N
IC4303	CK19602R	IC RN5VS45AA
IC4304	CK11252	IC MM1108XFFE
Q4104	CA10672R	TRANSISTOR 2SD601A
Q4107	CA10582R	TRANSISTOR 2SB709A
Q4108	CA10672R	TRANSISTOR 2SD601A
Q4109	CA10582R	TRANSISTOR 2SB709A
Q4110	CA10672R	TRANSISTOR 2SD601A
Q4111	5326903	TRANSISTOR UN2213
Q4115	CA10672R	TRANSISTOR 2SD601A
Q4116	5326903	TRANSISTOR UN2213
Q4303	CA10672R	TRANSISTOR 2SD601A
Q4304	CA10672R	TRANSISTOR 2SD601A
Q4305	CA10672R	TRANSISTOR 2SD601A
Q4306	CA10672R	TRANSISTOR 2SD601A
Q4310	5326903	TRANSISTOR UN2213
Q4313	CA10672R	TRANSISTOR 2SD601A
Q4314	CA10672R	TRANSISTOR 2SD601A
ZD4301	5339297	DIODE HZS5C3
		COILS
L4101	5159145	CHOKE COIL 22UH
L4102	5121289	COIL 22UH
L4301	0770057	CHOKE COIL 100UH+-5%
L4302	0770057	CHOKE COIL 100UH+-5%
		CRYSTALS
X4101	BP10832R	CRYSTAL(HEPM)
X4301	BP10381R	CRYSTAL
		MISCELLANEOUS
BL4301	BZ10471R	CORE

SYMBOL NO	P-NO	DESCRIPTION

CHAPTER 6 SCHEMATIC, CIRCUIT BOARD AND BLOCK DIAGRAMS/ MICROPROCESSOR PIN FUNCTION TABLES

Cautions when using schematic diagrams

Caution for safety

The parts marked ⚠ are critical for safety. Be sure to use the specified parts to ensure safety when replacing them.

1. Values in schematic diagrams

The values, dielectric strength (power capacitance) and tolerances of the resistors (excluding variable resistors) and capacitors are indicated in the schematic diagrams using abbreviations.

[Resistors]

Item	Indication
Value	No indication ..... Ω K ..... kΩ M ..... MΩ
Tolerance	No indication ..... ±5% (All tolerances other than ± 5% are indicated in the schematic diagrams)
Power capacitance	No indication ..... 1/8W (1/16W for leadless resistors without indication) All capacitances other than the above are indicated in the schematic diagrams.

[Capacitors]

Item	Indication
Value	No indication ..... μF P ..... pF
Dielectric strength	No indication ..... 50V (All dielectric strengths other than 50V are indicated in the schematic diagrams.)

[Coils]

Item	Indication
Value	μ ..... μH m ..... mH

Cautions when using circuit board diagrams

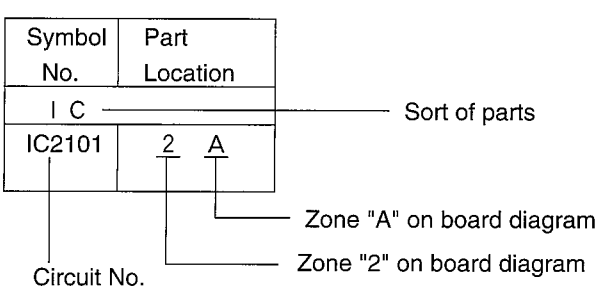
1. Identifications of sides A/B in circuit board diagrams

1) Board having a pattern on one side and parts on both sides.
   - Side A: Shows discrete parts, viewed from the pattern side.
   - Side B: Shows leadless parts, viewed from the pattern side.
2) Board having patterns on both sides and parts on both sides.
   - Side A: Shows parts and patterns which can be seen when the case is opened.
   - Side B: Shows parts and the pattern on the back of side A.

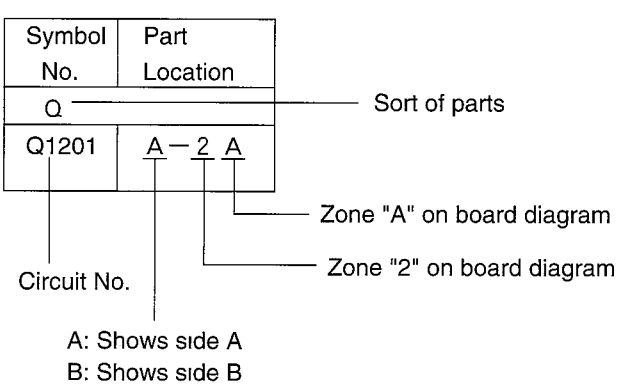
2. Table for indexing locations of parts

This table shows locations of each part on the circuit board diagrams. The locations are indicated using the guide scales on the external lines of diagrams.

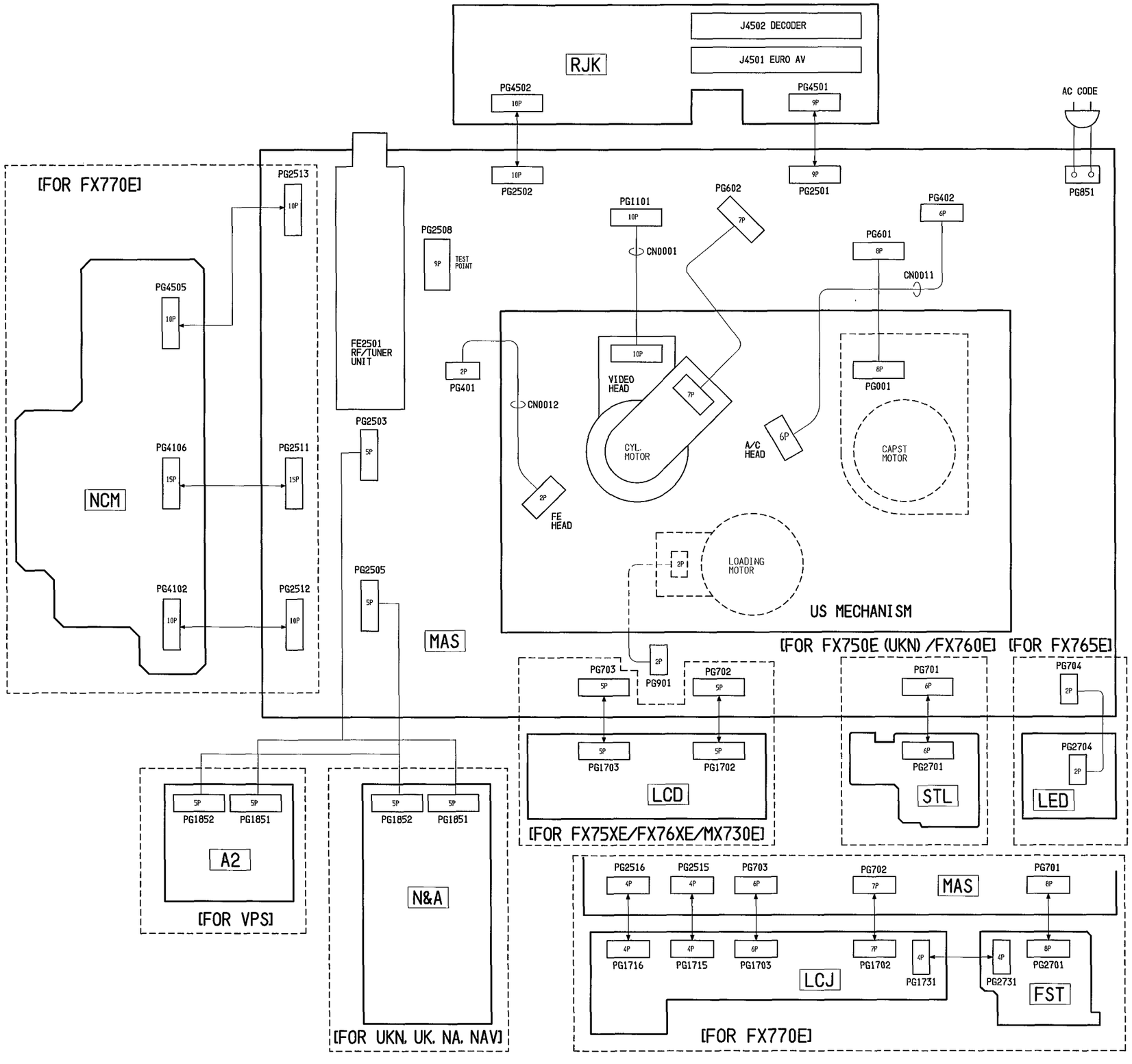
1) In case of one-layer board



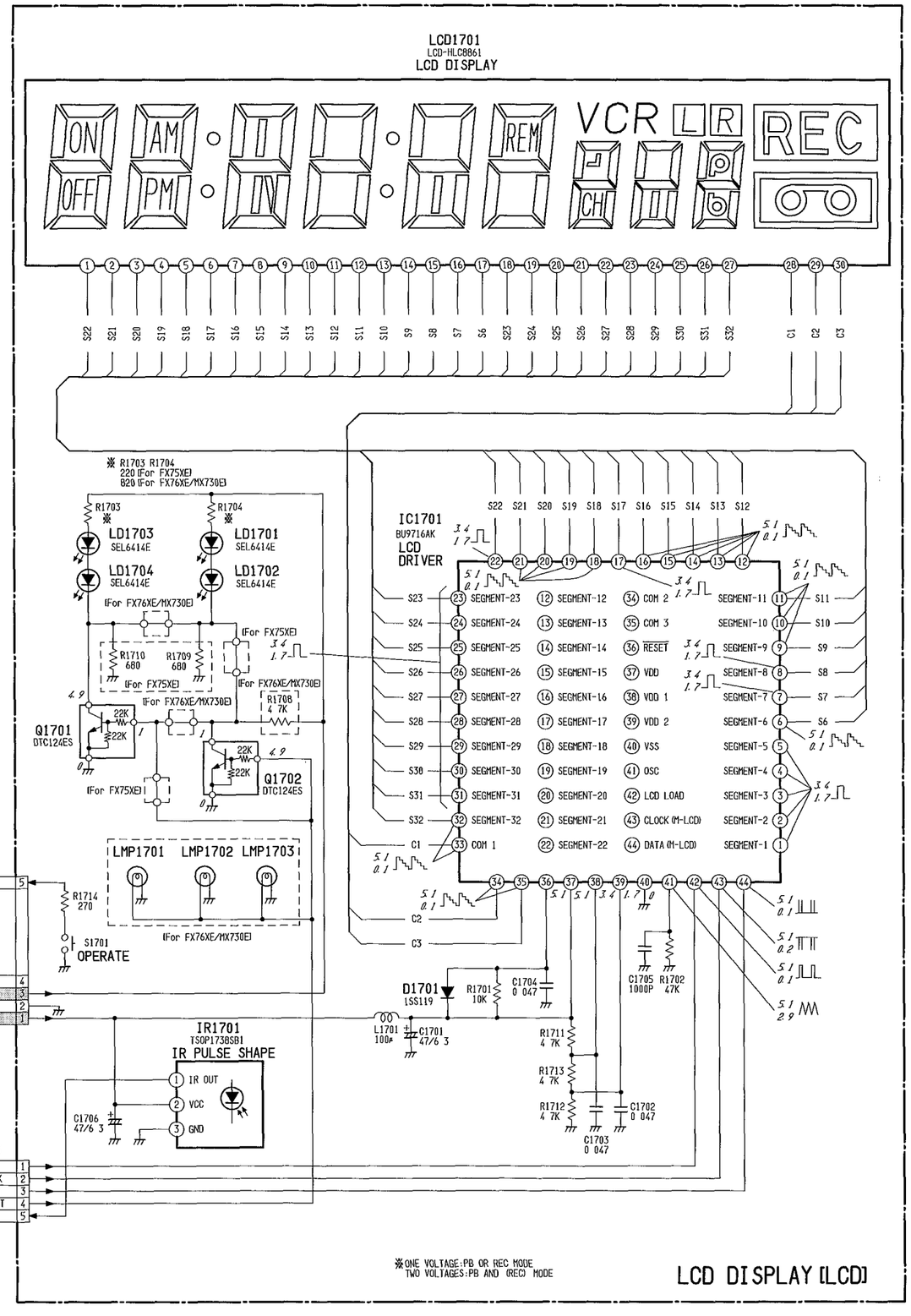
2) In case of side A/B indication board



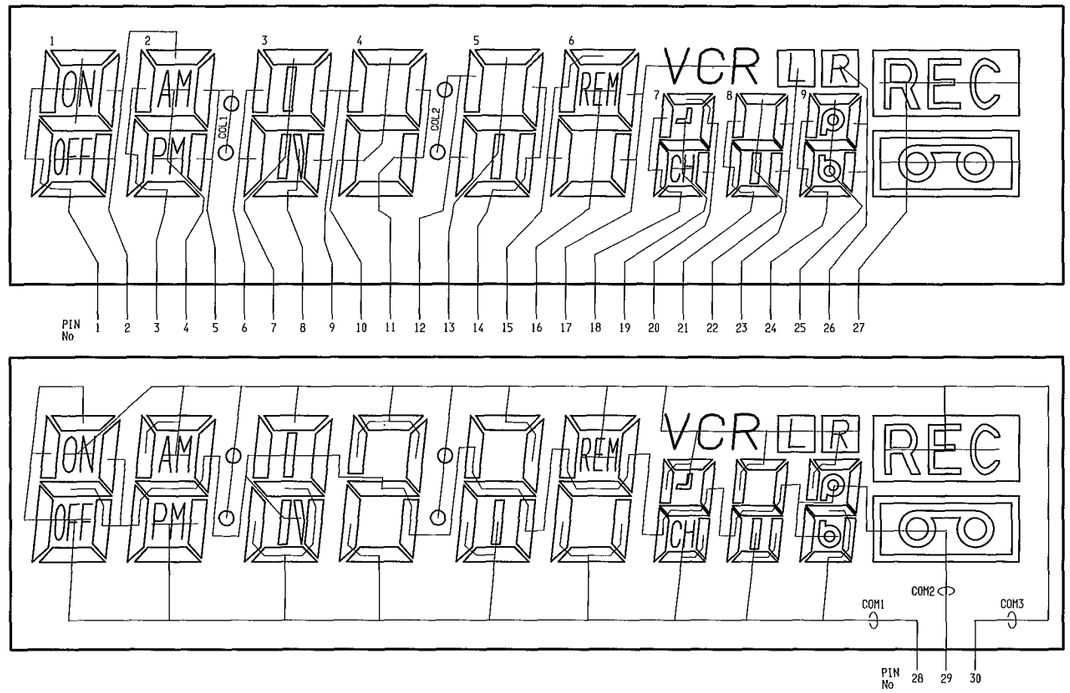
CONNECTION DIAGRAM



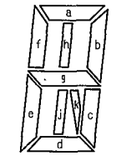
LCD DISPLAY [LCD] SCHEMATIC DIAGRAM [EXCEPT FOR VT-FX770E]



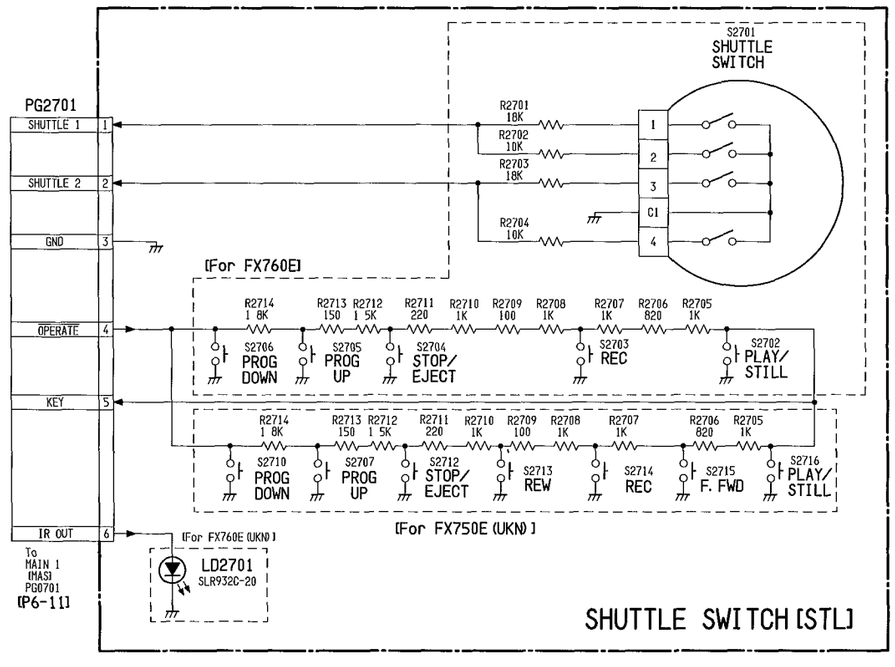
LCD GRID TABLE



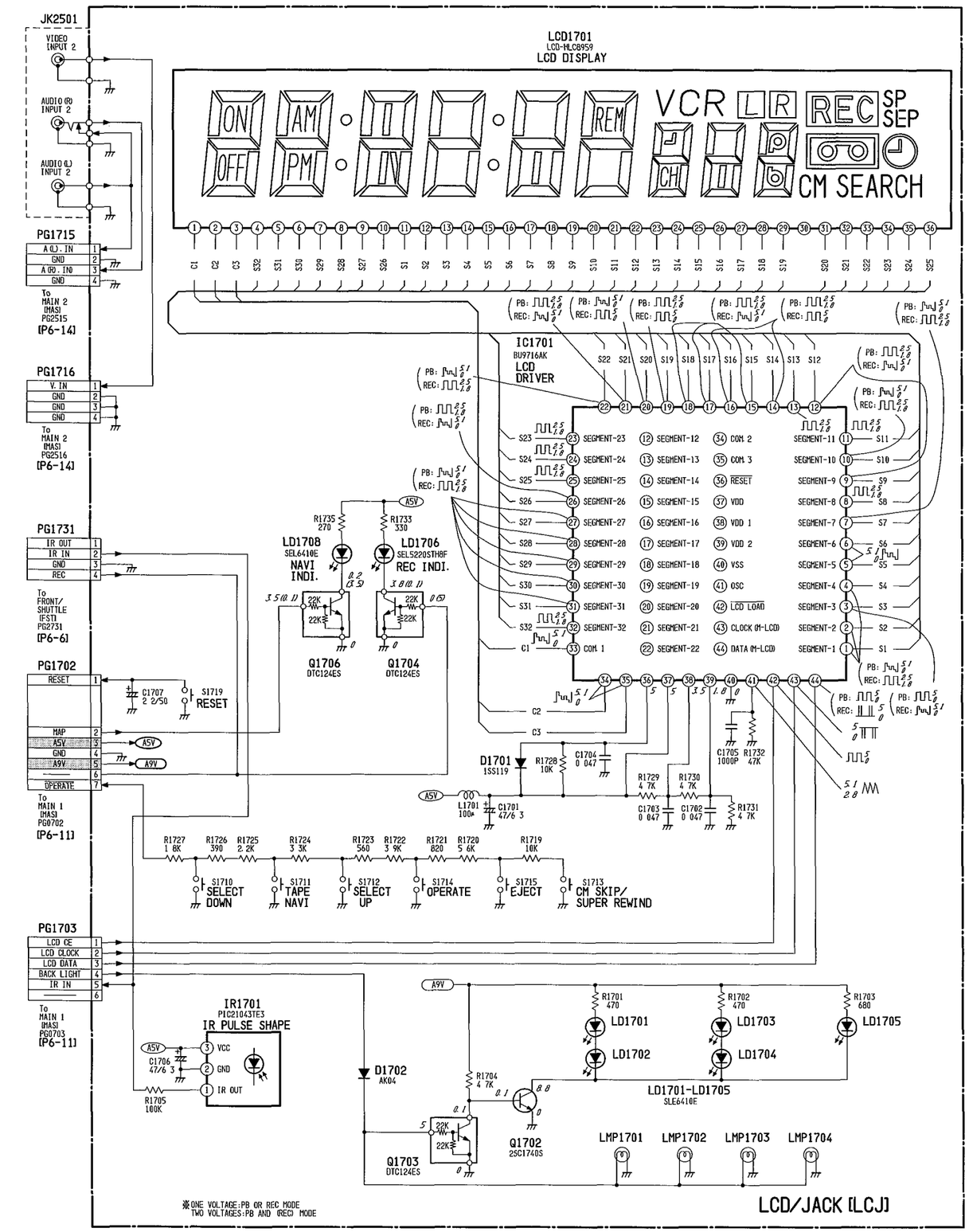
PIN No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
COM1	ladef	OFF	2d	PM	2c	3e	3g	3d	3c	4e	4d	5e	5j	5d	6e	6d	6c	7d	CH	7c	8d	8j	8c	9d	9g	9c	—	COM	—	—
COM2	1g	1bc	2e	2g	2b	3f	3hj	3k	3b	4g	4c	5f	5g	5c	6f	6g	6b	7e	7g	7b	8e	8g	8b	9e	9f	9b	—	—	COM	—
COM3	ON	2a	2f	AM	COL1	—	3a	—	4f	4a	4b	COL2	5a	5b	6a	REM	VCR	7f	L	7a	8f	8a	L	9f	9a	R	REC	—	—	COM



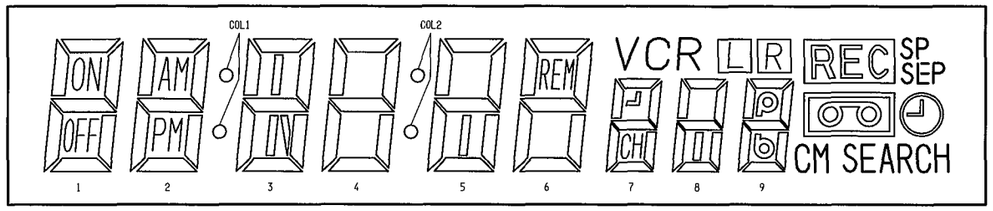
SHUTTLE SWITCHI [STL] SCHEMATIC DIAGRAM [EXCEPT FOR VT-FX770E]



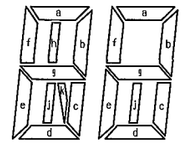
LCD/JACK [LCJ] SCHEMATIC DIAGRAM [FOR VT-FX770E]



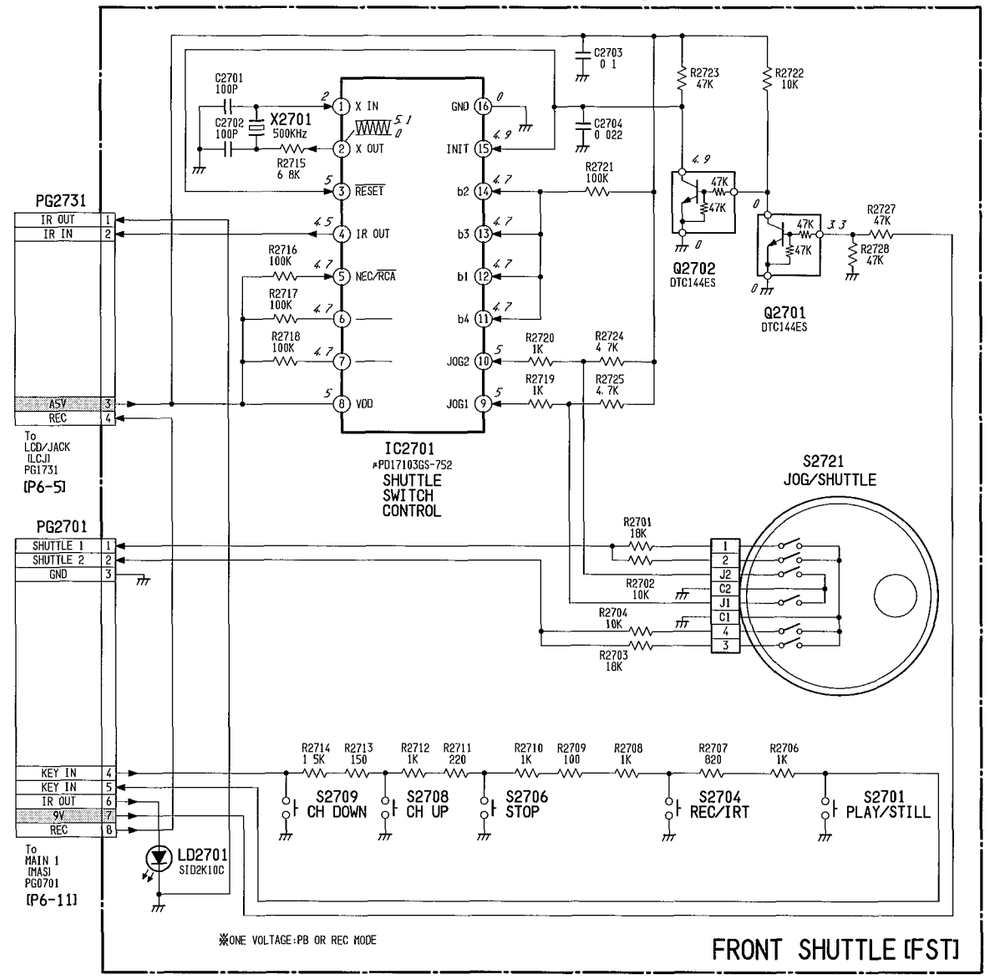
LCD GRID TABLE



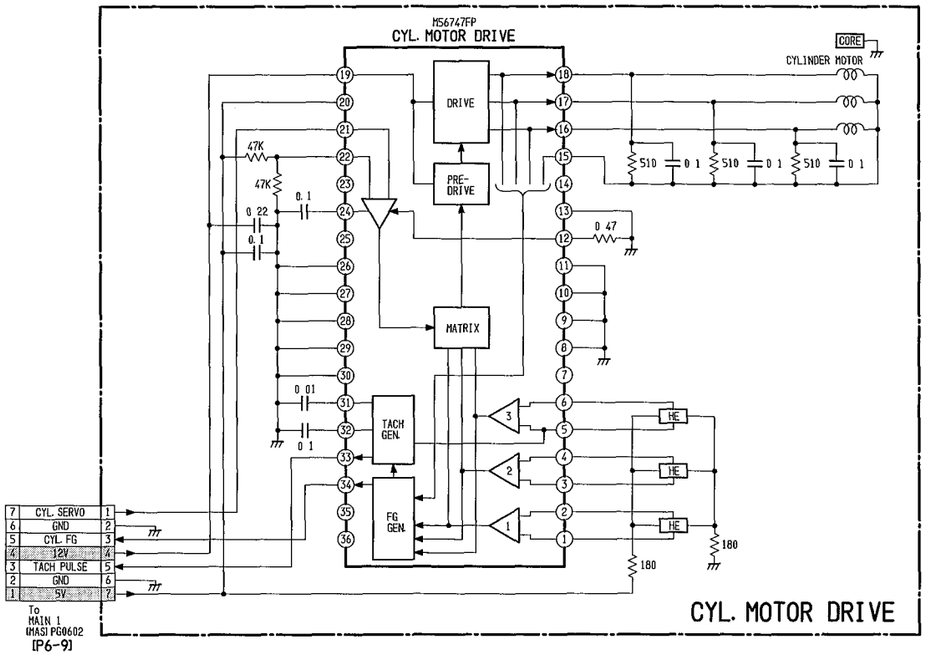
PIN No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
COM1	COM1	—	—	ladef	OFF	2d	PM	2c	3e	3g	3d	3c	4e	4d	5e	5i	5d	6e
COM2	—	COM2	—	1g	1bc	2e	2g	2b	3f	3hi	3k	3b	4g	4c	5f	5g	5c	6f
COM3	—	—	COM3	ON	2a	2f	AM	COL1	—	3a	—	4f	4a	4b	COL2	5a	5b	6a
PIN No	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
COM1	6d	6c	7d	CH	7c	8d	8i	8c	9d	9g	9c		—	SP	S	—	—	
COM2	6g	6b	7e	7g	7b	8e	8g	8b	9e	P	9b	N C		—	LP		CM SEARCH	N C
COM3	REM	VCR	7f		7a	8f	8a	L	9f	9a	R		REC	—	=	—	—	



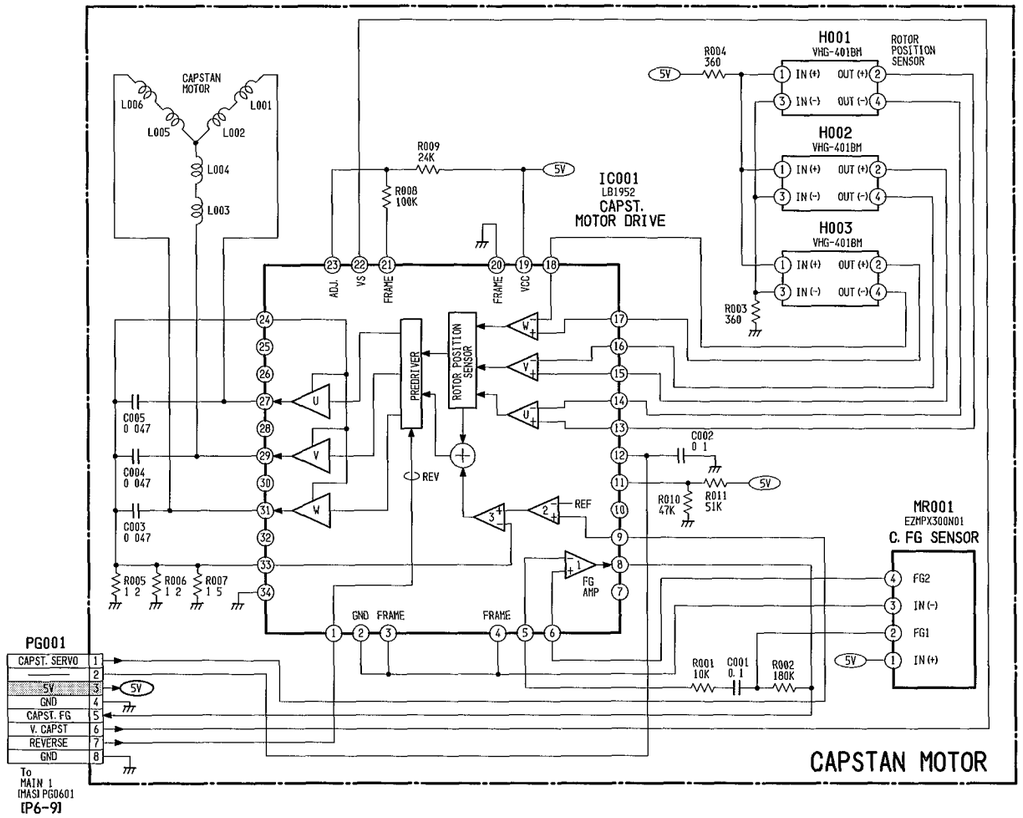
FRONT SHUTTLE [FST] SCHEMATIC DIAGRAM [FOR VT-FX770E]



CYL. MOTOR DRIVE SCHEMATIC DIAGRAM



CAPSTAN MOTOR SCHEMATIC DIAGRAM

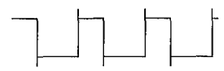


SERVO WAVEFORMS

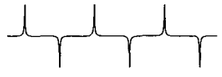
1-A IC901-24 5.0Vp-p
1V/5.0msec cm
REC/PLAY

2-A IC901-31 5.4Vp-p
1V/5.0msec cm
REC

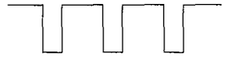
3-A IC901-32 5.4Vp-p
1V/5 0msec.cm
REC



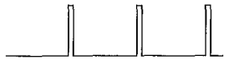
4-B IC901-37 2.7Vp-p
500mV/10.0msec cm
RLAY



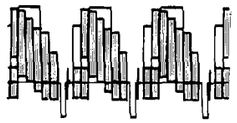
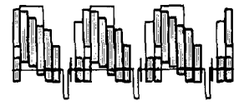
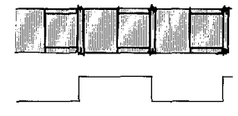
5-A IC901-38 4 6Vp-p
1V/500µsec.cm
REC/PLAY



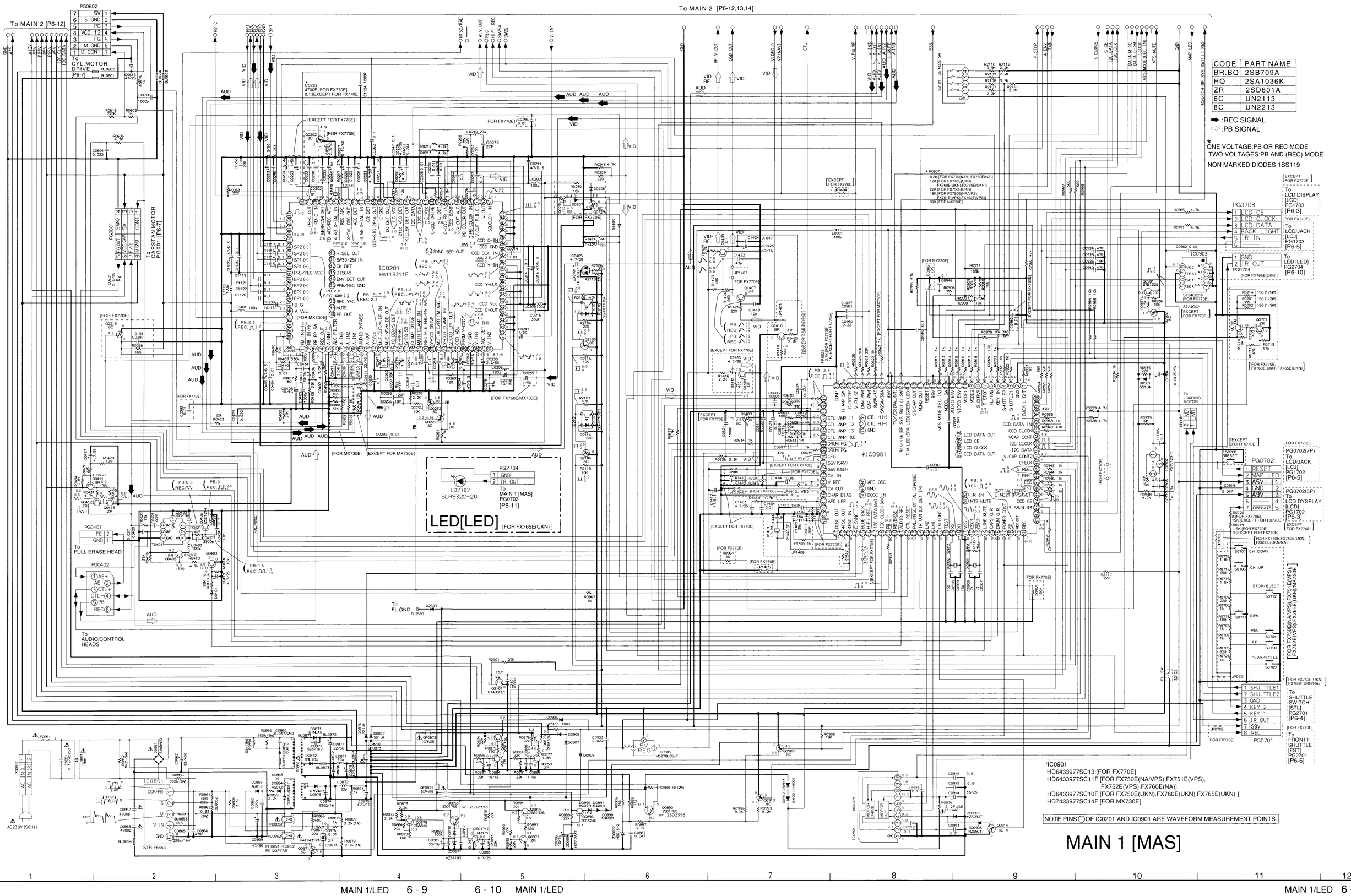
6-A IC901-39 4 8Vp-p
1V/10.0msec.cm
REC/PLAY



Y/CHROMA WAVEFORMS

1-A IC201-21 320mVp-p 0.2V/20.0µsec.cm REC	4-A IC201-52 2 2Vp-p 0 5V/20.0µsec cm REC	7-B IC201-58 200mVp-p 0 2V/20 0µsec.cm PLAY
		
1-B IC201-21 320mVp-p 0 2V/20 0µsec.cm PLAY	4-B IC201-52 2.2Vp-p 0.5V/20.0µsec.cm PLAY	8-A IC201-60 140mVp-p 0 1V/20 0µsec cm REC
2-A IC201-26 530mVp-p 0.2V/20.0µsec cm REC	5-B IC201-54 300mVp-p 0.1V/20 0µsec cm PLAY	8-B IC201-60 160mVp-p 0.1V/20.0µsec cm PLAY
2-B IC201-26 530mVp-p 0.2V/20.0µsec cm RLAY	6-B IC201-55 300mVp-p 0.2V/20.0µsec cm PLAY	9-A IC201-69 450mVp-p 0 2V/100nsec.cm REC/PLAY
3-A IC102-28 1 0Vp-p 0.5V/20.0µsec cm REC	7-A IC201-58 180mVp-p 0.2V/20 0µsec cm REC	10-B IC201-78 1.0Vp-p 0.5V/5.0msec.cm PLAY
		

MAIN 1 [MAS] /LED [LED] SCHEMATIC DIAGRAM



MAIN 2 [MAS] SCHEMATIC DIAGRAM

CODE	PART NAME
BR,BQ	2SB709A
ZR	2SD601A
6C	UN2113
8C	UN2213

➡ :REC SIGNAL
⇨ :PB SIGNAL

* ONE VOLTAGE:PB OR REC MODE
TWO VOLTAGES:PB AND (REC) MODE
NON MARKED DIODES 1SS119

[FOR VPS]
To A2 [A2] PG1851 [P6-18]
To A2 [A2] PG1852 [P6-18]
[FOR UKN,UK,NA NAVI]
To NAICAM [N&A] PG1851 [P6-17]
To NAICAM [N&A] PG1852 [P6-17]

[FOR FX770E]
To TAPE NAVIGATION [NCM] PG4106 [P6-20]
To TAPE NAVIGATION [NCM] PG4102 [P6-19]
To TAPE NAVIGATION [NCM] PG4505 [P6-20]

[FOR FX760E,FX765E]
JK2505
To LCD JACK [LCJ] PG1716 [P6-5]
To LCD JACK [LCJ] PG1715 [P6-5]

10P:[EXCEPT FOR MX730E]
6P:[FOR MX730E]
To REAR JACK [RJK] PG4502 [P6-15]
To REAR JACK [RJK] PG4501 [P6-15]

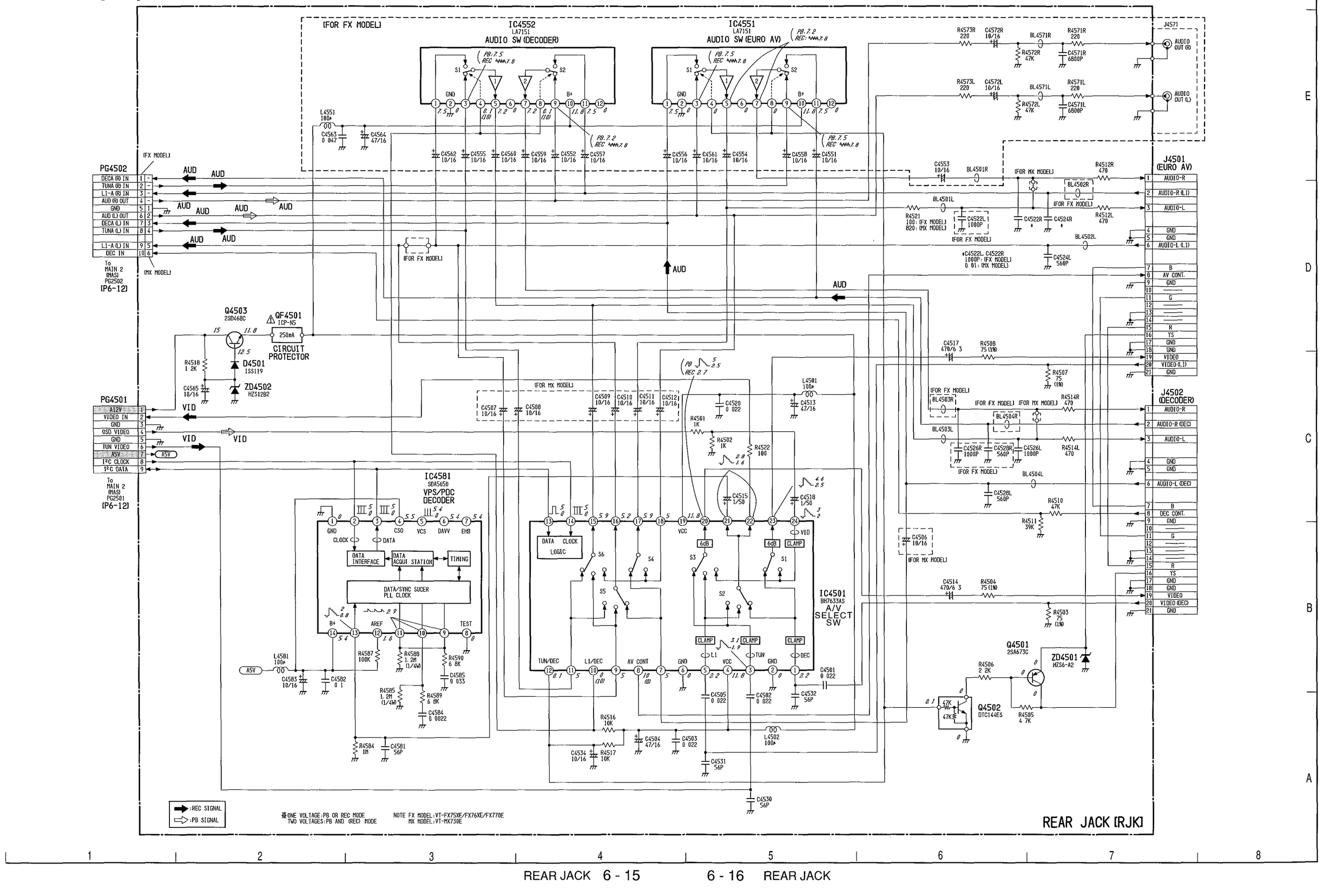
TEST POINT

IC0501 AN5364FTB FM AUDIO PROCESS
IC1102 AN5329S
IC2501 NJM2534D
HIFI AUDIO

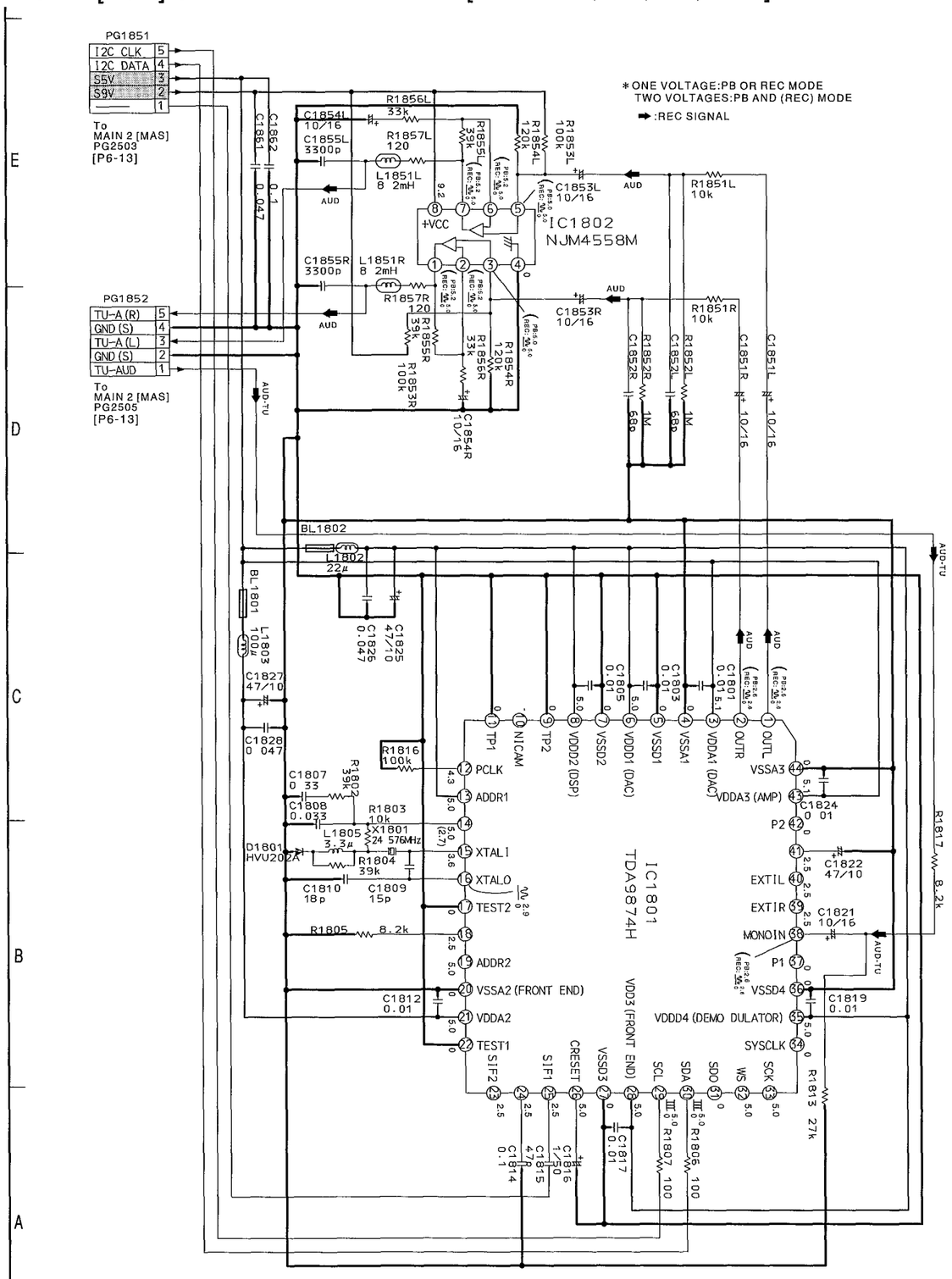
To MAIN 1 [P6-9,10,11]

MAIN 2 [MAS]

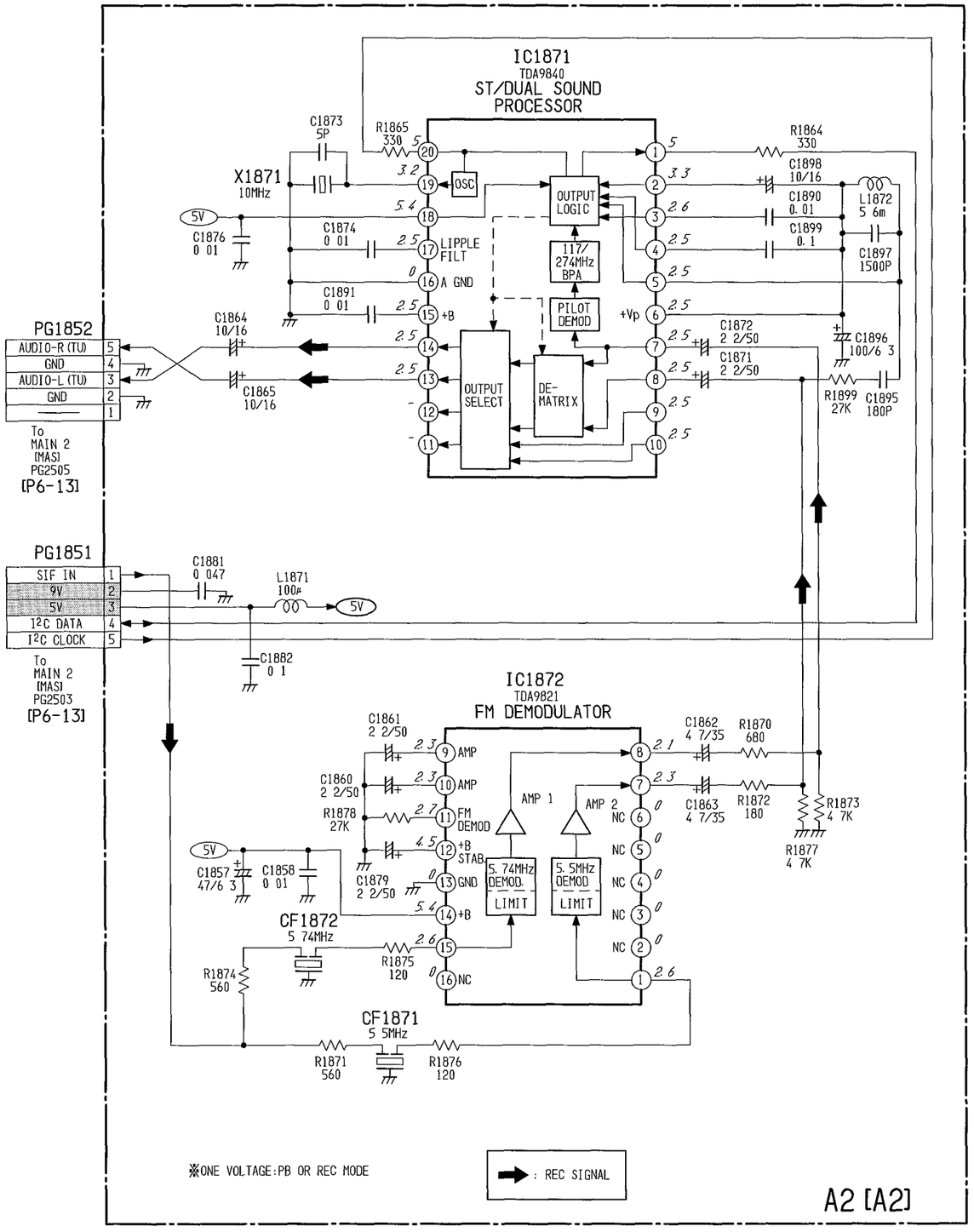
REAR JACK [RJK] SCHEMATIC DIAGRAM



NICAM [N&A] SCHEMATIC DIAGRAM [FOR UKN, UK, NA, NAV]

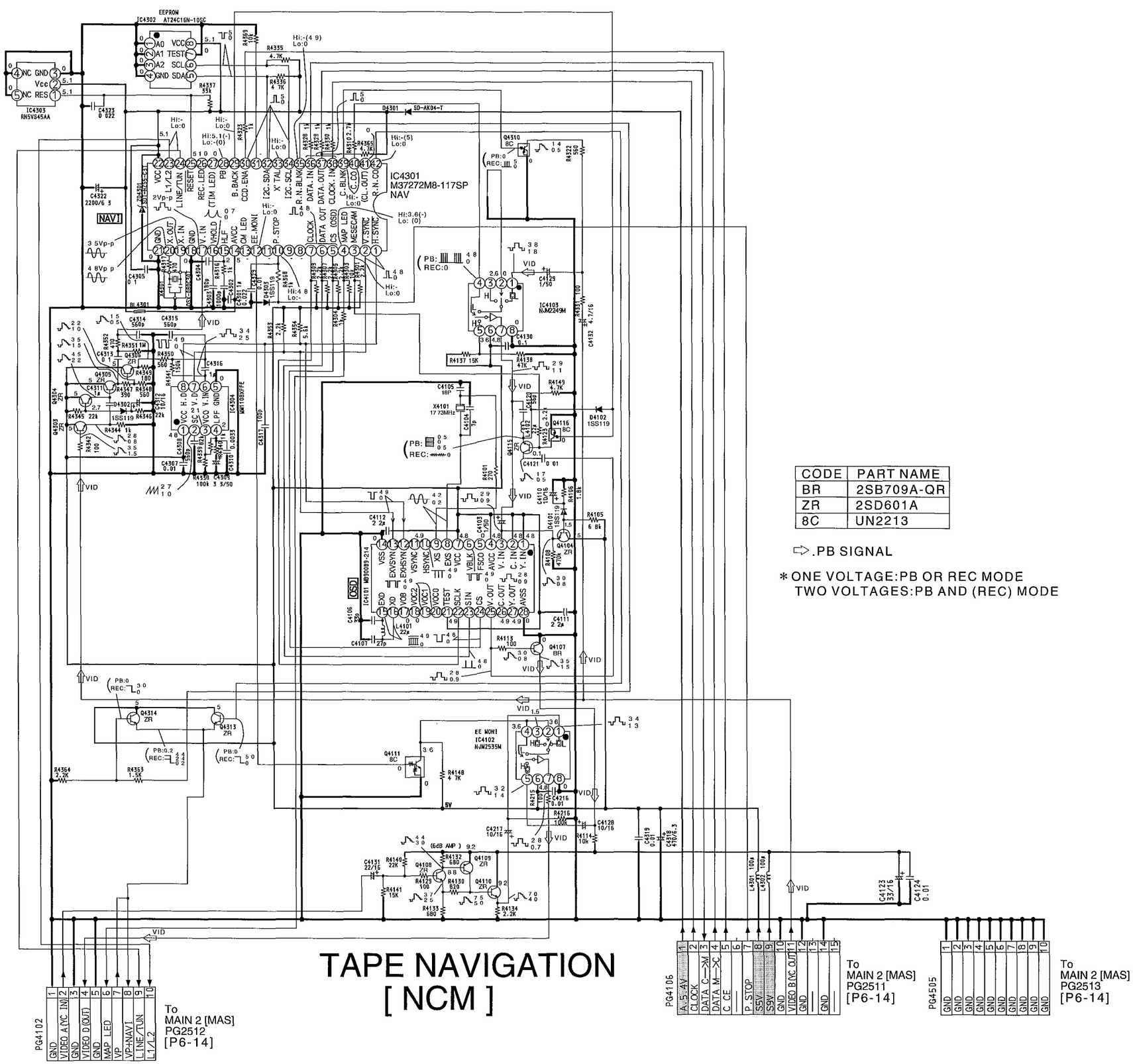


A2 [A2] SCHEMATIC DIAGRAM [FOR VPS]



A2 [A2]

TAPE NAVIGATION [NCM]
SCHEMATIC DIAGRAM



CODE	PART NAME
BR	2SB709A-QR
ZR	2SD601A
8C	UN2213

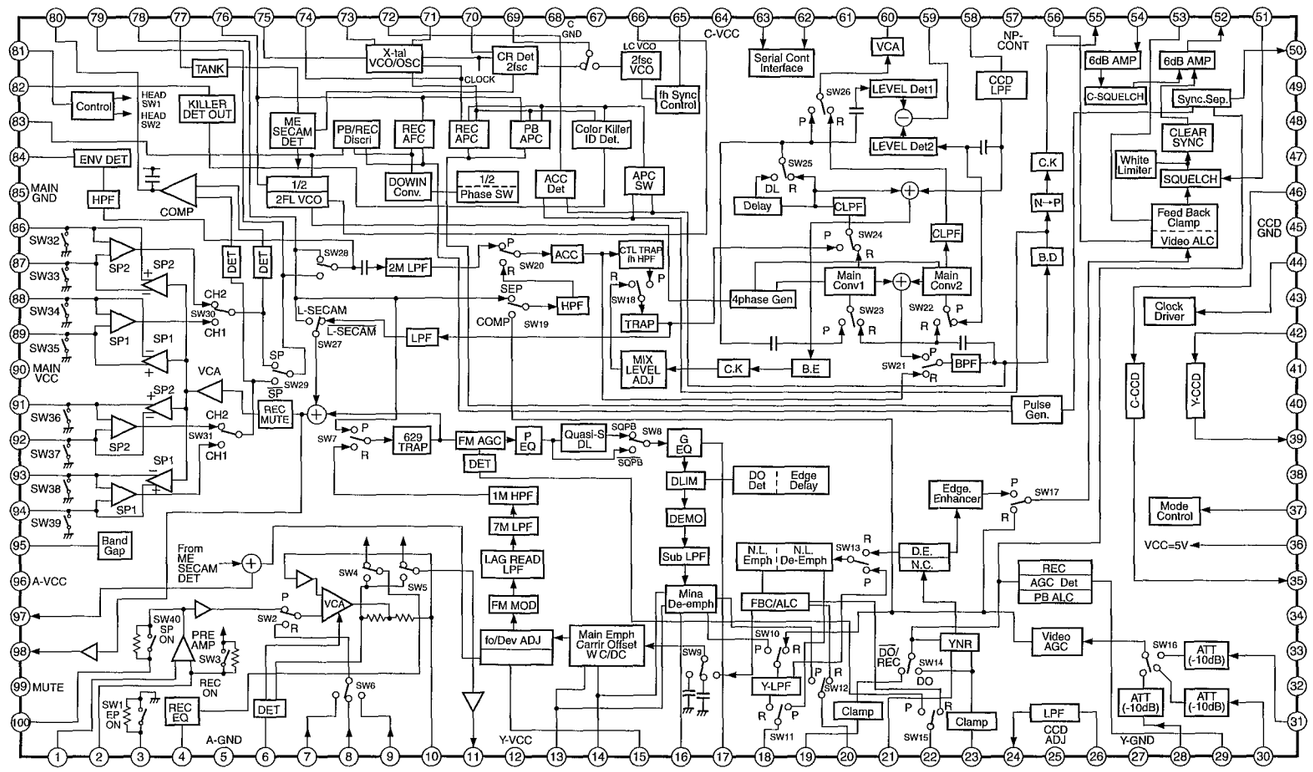
⇨.PB SIGNAL

* ONE VOLTAGE:PB OR REC MODE
  TWO VOLTAGES:PB AND (REC) MODE

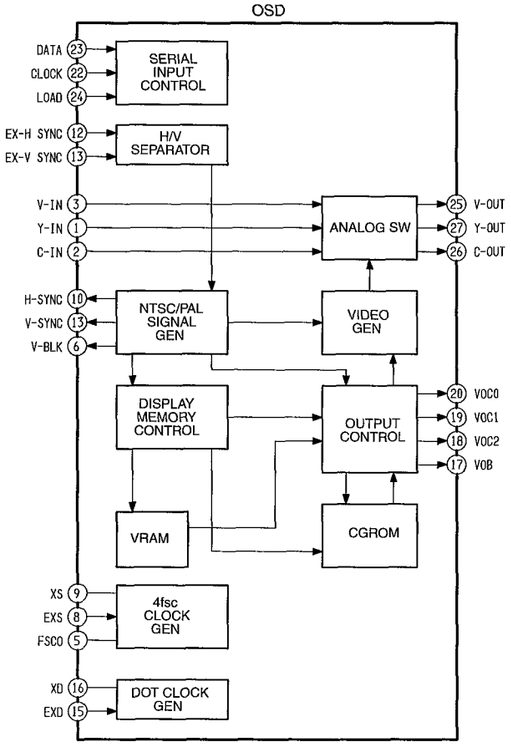
TAPE NAVIGATION
[NCM]

IC BLOCK DIAGRAM

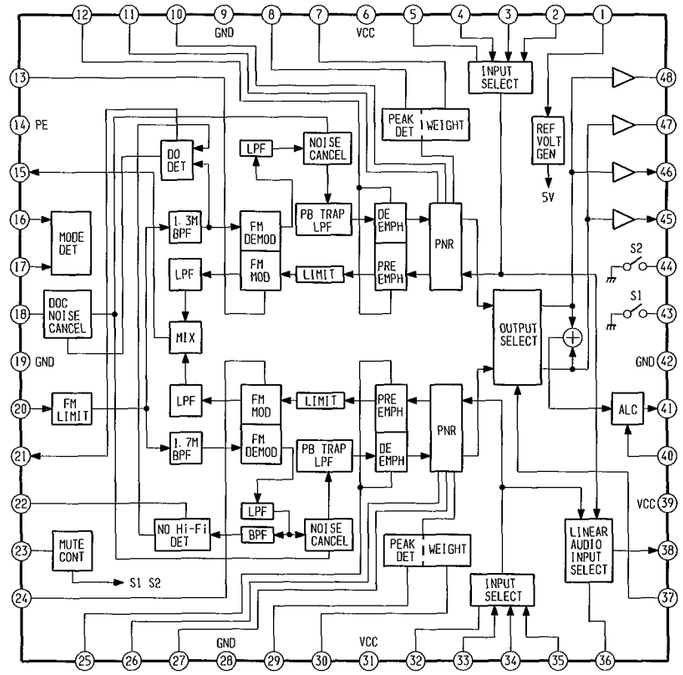
IC0201
HA118211F
VIDEO PROCESS



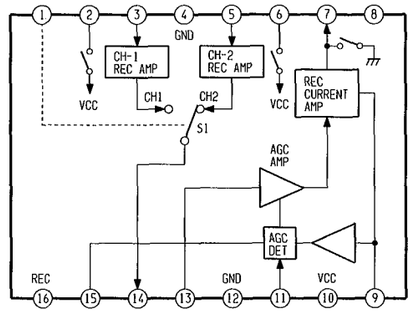
IC4101
MB90089-214
OSD



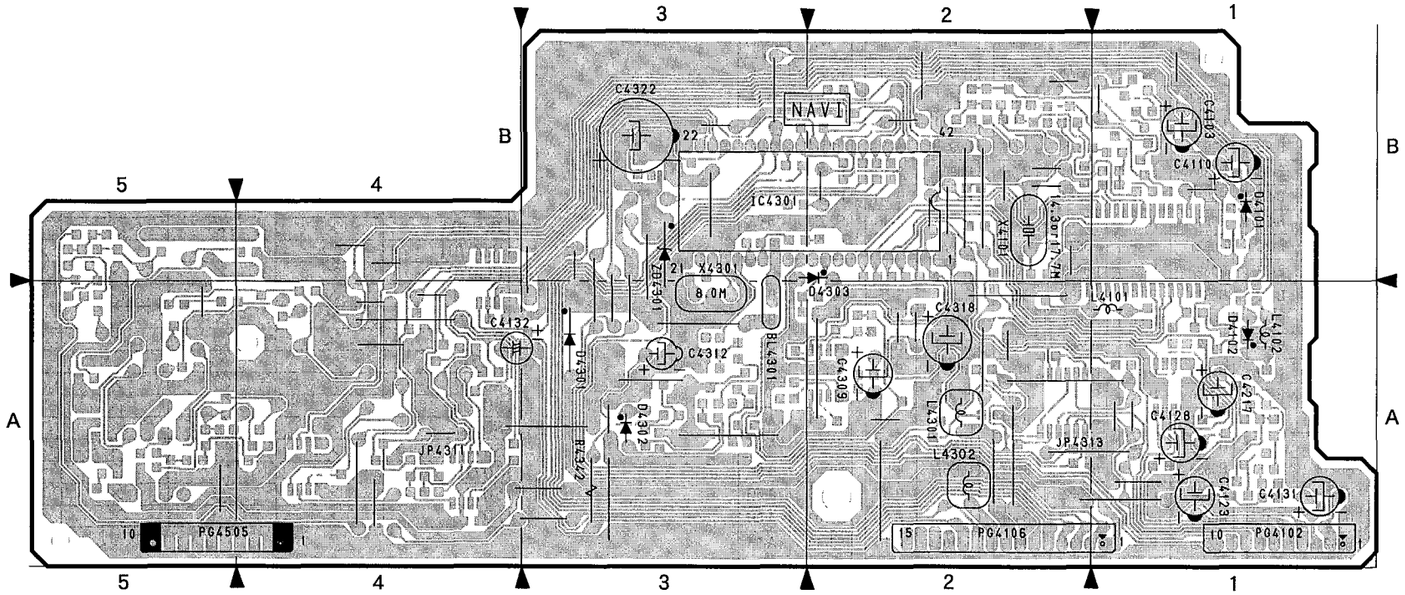
IC501
AN3964FB
FM AUDIO
PROCESS



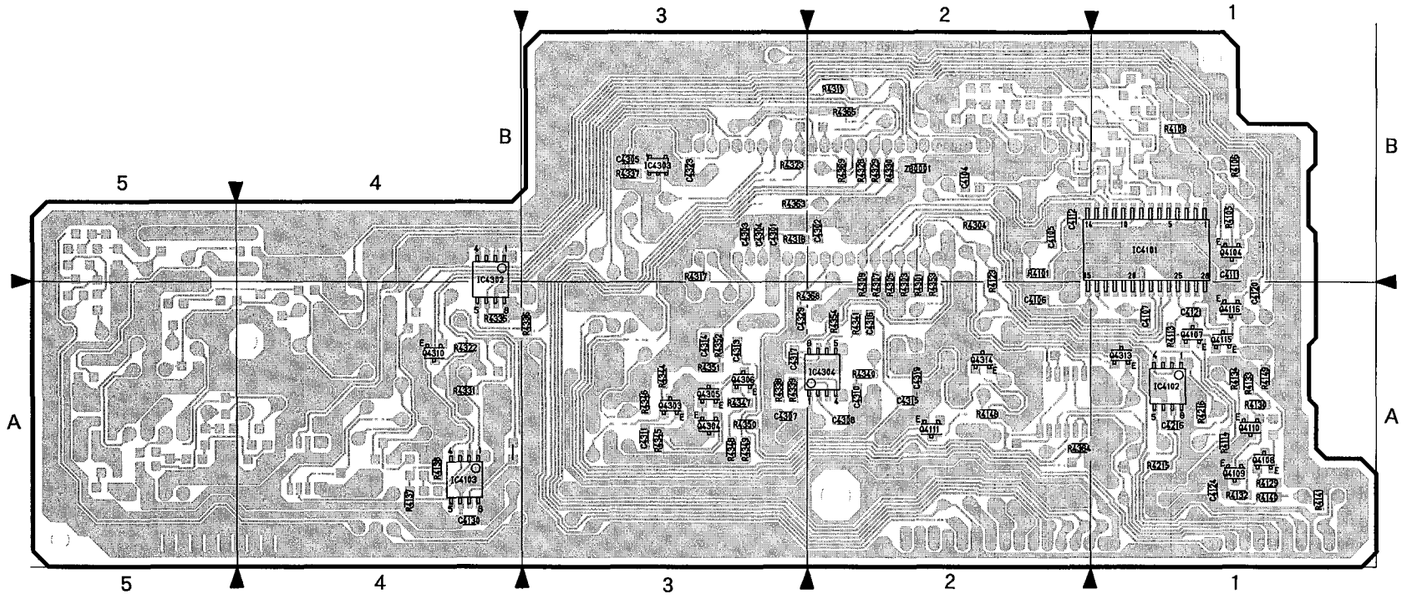
IC1102
AN3329S
AUDIO
HEAD AMP



NCM CIRCUIT BOARD



NCM [TAPE NAVIGATION] —SIDE A—



NCM [TAPE NAVIGATION] —SIDE B—

[PATTERN No. JK1359-4]

[FOR VT-FX770E]

IDENTIFICATION OF PARTS LOCATIONS

Symbol No	Parts Location
BL	
BL4301	A-3A
C	
C4103	A-1B
C4104	B-2B
C4105	B-2B
C4106	B-2A
C4107	B-1A
C4110	A-1B
C4111	B-1B
C4112	B-2B
C4120	B-1A
C4121	B-1A
C4123	A-1A
C4124	B-1A
C4128	A-1A
C4130	B-4A
C4131	A-1A
C4132	A-4A
C4216	B-1A
C4217	A-1A
C4301	B-3B
C4302	B-2B
C4303	B-3B
C4304	B-3B
C4305	B-3B
C4307	B-3A
C4308	B-2A
C4309	A-2A
C4310	B-2A
C4311	B-3A
C4312	A-3A
C4313	B-3A
C4314	B-3A
C4315	B-2A
C4316	B-2A
C4317	B-3A
C4318	A-2A
C4319	B-2A
C4322	A-3B
C4323	B-3B
C4329	B-3A
D	
D4101	A-1B
D4102	A-1A
D4301	A-3A
D4302	A-3A
D4303	A-2B
IC	
IC4101	B-1B
IC4102	B-1A
IC4103	B-4A
IC4301	A-2B
IC4302	B-4B
IC4303	B-3B
IC4304	B-2A
L	
L4101	A-1A
L4102	A-1A
L4301	A-2A
L4302	A-2A
PG	
PG4102	A-1A
PG4106	A-2A
PG4505	A-5A
Q	
Q4104	B-1B
Q4107	B-1A
Q4108	B-1A
Q4109	B-1A
Q4110	B-1A
Q4111	B-2A
Q4115	B-1A
Q4116	B-1A
Q4303	B-3A
Q4304	B-3A
Q4305	B-3A
Q4306	B-3A
Q4310	B-4A
Q4313	B-1A
Q4314	B-2A
R	
R4101	B-2B
R4105	B-1B
R4106	B-1B
R4108	B-1B
R4113	B-1A
R4114	B-1A
R4123	B-2B
R4129	B-1A
R4130	B-1A
R4132	B-1A
R4133	B-1A
R4134	B-1A
R4137	B-4A
R4138	B-4A
R4140	B-1A
R4141	B-1A
R4148	B-2A
R4149	B-1A
R4215	B-1A
R4216	B-1A
R4301	B-2A
R4303	B-2A
R4304	B-2B
R4305	B-2A
R4307	B-2A
R4309	B-2A
R4310	B-2B
R4316	B-3B
R4317	B-3B
R4320	B-2A
R4322	B-4A
R4323	B-3B
R4328	B-2B
R4329	B-2B
R4330	B-2B
R4331	B-4A
R4335	B-4A
R4336	B-3A
R4337	B-3B
R4338	B-3A
R4339	B-3A
R4341	B-2A
R4342	A-3A
R4344	B-3A
R4345	B-3A
R4346	B-3A
R4347	B-3A
R4348	B-3A
R4349	B-3A
R4350	B-3A
R4351	B-3A
R4352	B-3A
R4353	B-2A
R4354	B-2A
R4363	B-3B
R4364	B-2A
R4365	B-2B
R4368	B-2A
R4369	B-2B
X	
X4101	A-2B
X4301	A-3A
ZD	
ZD4301	A-3B

IDENTIFICATION OF PARTS LOCATION

MAS [FOR VT-FX75xE/FX76xE]

Symbol No	Parts Location
#	
#2501	A-5H
BL	
BL0601	A-2G
BL0602	A-3G
BL0603	A-1E
BL0604	A-1E
BL0851	A-2H
BL0852	A-2H
BL0853	A-2H
BL0871	A-4H
BL0872	A-4H
BL0873	A-4H
BL0874	A-4G
BL2501	A-6B
BL2502	A-6A
C	
C0201	B-3D
C0202	B-2C
C0203	A-1C
C0206	A-2C
C0207	B-2C
C0208	B-2B
C0209	B-2C
C0211	A-2B
C0213	A-2C
C0214	B-3C
C0215	A-3C
C0216	B-3C
C0218	A-2B
C0219	B-2C
C0220	A-2C
C0221	A-1C
C0222	B-1C
C0223	A-2C
C0226	B-1C
C0227	A-1C
C0228	B-2C
C0230	B-2C
C0233	A-2D
C0234	A-3D
C0235	B-2D
C0236	B-2B
C0237	B-2B
C0238	A-3C
C0239	A-3C
C0241	A-3C
C0242	A-2C
C0243	B-3C
C0244	B-2C
C0245	A-3C
C0246	B-3C
C0247	B-2B
C0249	B-3C
C0250	B-3C
C0251	B-3C
C0255	B-3D
C0256	B-2D
C0257	B-2C
C0259	B-3C
C0262	B-1C
C0263	B-1C
C0273	B-2B
C0278	B-2B
C0292	B-3G
C0402	A-2D
C0403	A-2D
C0404	B-2D
C0405	A-3D
C0406	B-2D
C0407	A-2D
C0408	A-2D
C0409	B-2D
C0410	B-2D
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C0413	B-2D
C0414	A-3D
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C0422	A-1F
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C0427	B-1F
C0429	B-2D
C0434	B-2D
C0435	B-2D
C0437	A-1F
C0501	A-3D
C0502	A-3D
C0503	A-2D
C0504	A-2E
C0505	A-2E
C0506	A-2E
C0507	B-2E
C0508	A-2E
C0509	A-3E
C0510	B-3E
C0511	B-3E
C0512	B-3D
C0513	A-3E
C0514	B-3E
C0517	B-3E
C0518	B-3E
C0519	A-3E
C0520	A-3E
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C0522	B-3E
C0523	A-3E
C0524	A-3E
C0525	A-3E
C0526	A-3E
C0527	A-3E
C0528	A-3D
C0529	A-3D
C0530	A-3D
C0531	A-3D
C0532	A-3D
C0533	B-3D
C0534	A-3E
C0535	B-3D
C0536	B-3E
C0601	A-1E
C0604	B-1E
C0606	B-5E
C0607	B-5D
C0608	B-5D
C0609	A-5D
C0611	B-5D
C0612	A-5D
C0614	B-1E
C0615	A-1E
C0621	A-4D
C0623	B-5D
C0624	B-5D
C0701	B-6G
C0851	A-1H
C0857	A-2H
C0858	A-2G
C0859	A-3H
C0860	A-2H
C0862	A-2H
C0863	A-3H
C0865	A-3H
C0866	B-2H
C0871	A-4H
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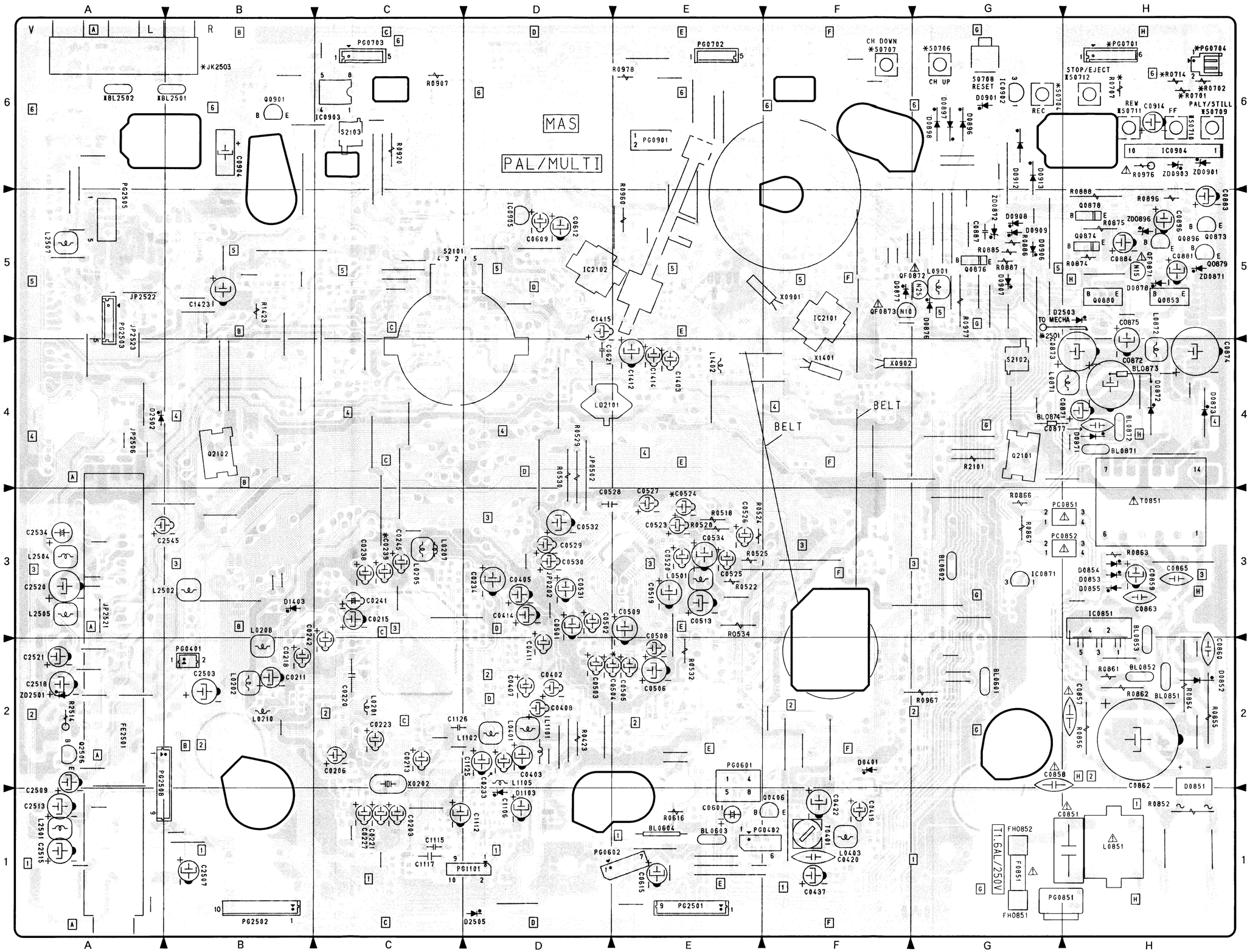
C0874	A-4H
C0875	A-4H
C0876	B-3G
C0877	A-4H
C0881	A-5H
C0882	B-5H
C0883	A-5H
C0884	A-5H
C0885	B-5G
C0886	B-5G
C0887	A-5G
C0896	A-5H
C0902	B-6C
C0903	B-5E
C0904	A-6B
C0905	B-6G
C0906	B-6G
C0907	B-5F
C0908	B-5F
C0909	B-4F
C0910	B-4F
C0912	B-6H
C0913	B-6H
C0914	A-6H
C0915	B-6H
C0916	B-6H
C0919	B-6E
C0922	B-6H
C0923	B-5D
C0924	B-6D
C0925	B-6D
C0926	B-6D
C0927	B-6G
C0940	B-5E
C0941	B-5E
C0945	B-5E
C0946	B-5E
C0950	B-5E
C0951	B-5E
C0982	B-6D
C1103	B-1D
C1104	B-1D
C1105	B-1D
C1106	A-1D
C1107	B-1D
C1108	B-1D
C1111	B-1D
C1112	A-1C
C1114	B-1C
C1115	A-1C
C1116	B-1C
C1117	A-1C
C1119	B-1C
C1120	B-1C
C1121	B-1C
C1122	B-1C
C1124	B-1C
C1125	A-2D
C1126	A-2C
C1138	B-1D
C1140	B-2E
C1141	B-3F
C1403	A-4E
C1404	B-4E
C1409	B-4E
C1410	B-4E
C1411	B-4E
C1412	A-4E
C1413	B-4E
C1414	A-4E
C1415	A-5D
C1419	B-5B
C1422	B-5B
C1423	A-5B
C1424	B-5C
C1425	B-3C
C1444	B-4F
C2101	B-4G
C2102	B-4B
C2503	A-2B
C2504	B-5B
C2507	A-1B
C2508	B-1A
C2509	A-2A
C2513	A-1A
C2514	B-1A
C2515	A-1A
C2517	B-2A
C2518	A-2A
C2519	B-3A
C2520	A-3A
C2521	A-2A
C2522	B-2A
C2523	B-3A
C2524	B-3A
C2525	B-3A
C2532	B-6A
C2533	B-6A
C2534	A-3A
C2540	B-3B
C2541	B-5A
C2542	B-1A
C2544	B-1A
C2545	A-3A
C2548	B-3A
D	
D0401	A-2F
D0851	A-2H
D0852	A-2H
D0853	A-3H
D0854	A-3H
D0855	A-3H
D0871	A-4H
D0872	A-4H
D0873	A-4H
D0876	A-5G
D0877	A-5F
D0878	A-5H
D0896	A-6G
D0897	A-6G
D0898	A-6G
D0901	A-6G
D0906	A-5G
D0907	A-5G
D0908	A-5G
D0909	A-5G
D0912	A-6G
D0913	A-6G
D1103	A-1D
D1403	A-3B
D2502	A-4A
D2503	A-5H
D2505	A-1D
F	
F0851	A-1G
FE	
FE2501	A-2A
IC	
IC0201	B-2C
IC0501	B-3E
IC0851	A-3H
IC0871	A-3G
IC0901	B-5E
IC0902	A-6G
IC0903	A-6C
IC0904	A-6H
IC0905	A-5D
IC1102	B-1D
IC2101	A-5F
IC2102	A-5D
JK	
JK2503	A-6A
JP	
JP0701	B-6H
JP0702	B-6H
L	
L0201	A-2C
L0202	A-2B
L0205	A-3C
L0207	A-3C
L0208	A-2B
L0210	A-2B
L0401	A-2D
L0403	A-1F
L0501	A-3E
L0851	A-1H
L0871	A-4H
L0872	A-4H
L0901	A-5G
L1101	A-2D
L1102	A-2D
L1105	A-2D
L1402	A-4E
L2501	A-1A
L2502	A-3B
L2504	A-3A
L2505	A-3A
L2507	A-5A
LD	
LD2101	A-4D
PC	
PC0851	A-3H
PC0852	A-3H
PG	
PG0401	A-2B
PG0402	A-1F
PG0601	A-2E
PG0602	A-1E
PG0701	A-6H
PG0702	A-6E
PG0703	A-6C
PG0704	A-6H
PG0851	A-1G
PG0901	A-6E
PG1101	A-1D
PG2501	A-1E
PG2502	A-1B
PG2503	A-5A
PG2505	A-5A
PG2508	A-2B
Q	
Q0222	B-3D
Q0232	B-3D
Q0403	B-1F
Q0405	B-2F
Q0406	A-1F
Q0411	B-1F
Q0412	B-1F
Q0413	B-1F
Q0701	B-6H
Q0702	B-6H
Q0853	A-5H
Q0859	B-5G
Q0871	B-5H
Q0873	A-5H
Q0874	A-5H
Q0875	B-5H
Q0876	A-5G
Q0877	B-5F
Q0878	A-5H
Q0879	A-5H
Q0880	A-5H
Q0896	A-5H
Q0901	A-6B
Q0902	B-6B
Q0909	B-5F
Q0913	B-5F
Q0914	B-6H
Q1404	B-4C
Q1407	B-5B
Q1408	B-5B
Q1409	B-5C
Q1410	B-5C
Q2101	A-4G
Q2102	A-4B
Q2103	B-5D
Q2104	B-5F
Q2501	B-1C
Q2502	B-1B
Q2503	B-1A
Q2505	B-2A
Q2506	A-2A
Q2508	B-4A
Q2510	B-1A
Q2511	B-3B
QF	
QF0871	A-5H
QF0872	A-5G
QF0873	A-5F
R	
R0212	B-2C
R0213	B-2C
R0215	B-1C
R0216	B-2C
R0217	B-1C
R0229	B-2C
R0236	B-3D
R0238	B-2D
R0239	B-3C
R0241	B-3C
R0243	B-4C
R0253	B-1C
R0257	B-2B
R0258	B-2B
R0261	B-2D
R0263	B-2C
R0264	B-2C
R0269	B-3B
R0402	B-2D
R0407	B-2D
R0408	B-2D
R0409	B-2D
R0410	B-2D
R0413	B-1F
R0414	B-1F
R0418	B-1F
R0419	B-2F
R0420	B-1F
R0421	B-1F
R0422	B-1F
R0423	A-2D
R0424	B-3D
R0425	B-2D
R0429	B-1F
R0430	B-1F
R0431	B-1F
R0432	B-1F
R0434	B-1F
R0450	B-2D
R0501	B-3D
R0502	B-3D
R0503	B-2D
R0504	B-2D
R0505	B-2E
R0506	B-2E
R0507	B-2E
R0508	B-2E
R0509	B-2E
R0510	B-2E
R0511	B-3E
R0512	B-3E
R0516	B-3E
R0517	B-3E
R0518	A-3E
R0519	B-3E
R0520	A-3E
R0521	B-3E
R0522	A-3E
R0523	B-3E
R0524	A-3E
R0525	A-3E
R0526	B-3D
R0527	B-3D
R0528	B-3E
R0529	A-4D
R0530	A-4D
R0531	B-3D
R0532	A-2E
R0533	B-3E
R0534	A-3E
R0602	B-1E
R0605	B-1E
R0615	B-1E
R0616	A-1E
R0621	B-4F
R0622	B-5E
R0623	B-5E
R0624	B-5E
R0625	B-5D
R0629	B-5E
R0630	B-5E
R0631	B-5D
R0632	B-5D
R0633	B-5D
R0634	B-2F
R0635	B-3F
R0636	B-2F
R0637	B-4E
R0701	A-6H
R0702	A-6H
R0703	B-6D
R0704	B-6H
R0705	B-6H
R0706	B-6H
R0707	A-6H
R0708	B-6H
R0709	B-6H
R0710	B-6H
R0711	B-6H
R0712	B-6H
R0713	B-6H
R0714	A-6H
R0715	B-6H
R0716	B-6G
R0717	B-6H
R0718	B-6H
R0719	B-6F
R0720	B-6F
R0721	B-6H
R0852	A-1H
R0854	A-2H
R0855	A-2H
R0856	A-2H
R0859	B-3H
R0860	B-3H
R0861	A-2H
R0862	A-2H
R0863	A-3H
R0864	B-5H
R0866	A-3G
R0867	A-3G
R0868	B-3G
R0869	B-3G
R0870	B-3G
R0871	B-4H
R0872	B-5H
R0873	B-5H
R0874	A-5H
R0875	A-5H
R0876	B-5H
R0877	B-5H
R0878	B-5H
R0879	B-5H
R0880	B-5F
R0881	B-5F
R0885	A-5G
R0886	A-5G
R0887	A-5G
R0888	A-5H
R0889	B-5H
R0890	B-5H
R0891	B-5G
R0892	B-5H
R0893	B-5H
R0894	B-5G
R0895	B-5F
R0896	A-5H
R0897	B-5H
R0906	B-6G
R0907	A-6C
R0908	B-5F
R0909	B-5G
R0910	B-5E
R0911	B-6C
R0913	B-5E
R0914	B-6D
R0915	B-6D
R0916	B-6D
R0917	B-6D
R0918	B-4C
R0919	B-6D
R0920	A-6C
R0921	B-6E
R0922	B-6E
R0923	B-6B
R0924	B-6D
R0925	B-6D
R0926	B-6D
R0928	B-6C
R0929	B-6C
R0934	B-6D
R0935	B-6G
R0936	B-6B
R0937	B-6B
R0938	B-6D
R0939	B-6D
R0940	B-5F
R0943	B-5D
R0944	B-5F
R0945	B-5F
R0946	B-5F
R0947	B-5F
R0948	B-6G
R0949	B-5F
R0957	B-5F
R0960	A-5E
R0967	A-2G
R0968	B-4D
R0976	A-6H
R0977	A-5G
R0978	A-6E
R0983	B-6E
R0984	B-6E
R0985	B-6C
R0989	B-5F
R0991	B-6D
R0993	B-5F
R0995	B-6D
R0996	B-5F
R0997	B-6D
R0998	B-6D
R0999	B-6G
R1103	B-1D
R1104	B-1D
R1120	B-1D
R1121	B-3F
R1409	B-4E
R1410	B-4E
R1412	B-4E
R1414	B-3C
R1416	B-5C
R1418	B-5C
R1421	B-5B
R1423	A-5B
R1424	B-5B
R1427	B-5B
R1429	B-5B
R1430	B-5C
R1431	B-5C
R1432	B-4E
R1446	B-4F
R2101	A-4G
R2102	B-6C
R2103	B-5F
R2104	B-5D
R2105	B-5D
R2106	B-5D
R2107	B-5D
R2108	B-5D
R2109	B-5C
R2110	B-5C
R2111	B-5D
R2112	B-5D
R2113	B-5D
R2114	B-5F
R2115	B-5F
R2116	B-5D
R2117	B-6F
R2507	B-1C
R2508	B-1C
R2509	B-1B
R2510	B-1B
R2511	B-1A
R2512	B-1A
R2514	A-2A
R2518	B-3A
R2529	B-6A
R2530	B-6A
R2531	B-2A
R2532	B-2A
R2534	B-1B
R2535	B-4B
R2542	B-4A
R2543	B-5B
S	
S0704	A-6G
S0706	A-6G
S0707	A-6F
S0708	A-6G
S0709	A-6H
S0710	A-6H
S0711	A-6H
S0712	A-6H
S2101	A-5C
S2102	A-4G
S2103	A-6C
T	
T0401	A-1F
T0851	A-3H
X	
X0202	A-2C
X0901	A-5F
X0902	A-4F
X1401	A-4F
ZD	
ZD0871	A-5H
ZD0872	A-5G
ZD0896	A-5H
ZD0901	A-6H
ZD0903	A-6H
ZD2501	A-2A

DIFFERENCE TABLE

MAS -SIDE A- [FOR VT-FX75xE/FX76xE]

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

SYMBOL No.	FX750E (UKN)	FX75XE (NA/VPS)	FX760E (UKN)	FX760E (NA)	FX765E (UKN)
BL2501	×	×	○	○	○
BL2502	×	×	○	○	○
C0239	×	×	○	○	○
C0504	×	×	○	○	○
C0524	×	×	○	○	○
JK2503	×	×	○	○	○
PG0701	○	×	○	○	×
PG0704	×	×	×	×	○
R0701	×	×	○	×	○
R0702	×	×	○	×	○
R0707	×	○	×	×	○
R0714	×	×	○	×	○
S0704	×	○	×	×	○
S0706	×	○	×	×	○
S0707	×	○	×	×	○
S0709	×	○	×	×	○
S0710	×	○	×	×	○
S0711	×	○	×	×	○
S0712	×	○	×	×	○


MAS
PAL/MULTI
BELT
BELT
CH DOWN
*S0707
*S0706
CH UP
S0708
RESET
*S0704
REC
STOP/EJECT
*S0712
REW
*S0711
FF
*S0710
PALY/STILL
*S0709
*PG0701
*PG0704
*R0714
*R0702
*R0701
IC0904
IC0903
IC0902
IC2102
IC2101
IC0871
IC0851
PG0703
PG0702
PG0901
PG0401
PG0601
PG0602
PG2505
PG2503
PG2508
PG2502
PG2501
PG1101
PG0851
*JK2503
*BL2502
*BL2501
JP2522
JP2523
JP2506
JP2521
JP0502
JP2202
S2103
S2101
S2102
X0901
X0902
X1401
X0202
TO MECHA
*2501
T0851
T0401
FH0852
FH0851
F0851
TT-6AL/250V
L0851
L0901
L0871
L0872
L0873
L0874
L0403
L0207
L0205
L0208
L0202
L0210
L0201
L0401
L1101
L1102
L1105
L1402
LQ2101
L2507
L2504
L2505
L2502
L2501
BL0601
BL0602
BL0603
BL0604
BL0871
BL0872
BL0873
BL0874
BL0851
BL0852
BL0853
Q0901
Q2102
Q2101
Q0406
Q0878
Q0874
Q0875
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Q0879
Q0873
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Q0502
Q0503
Q0504
Q0505
Q0506
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Q0509
Q0513
Q0519
Q0520
Q0522
Q0523
Q0524
Q0525
Q0526
Q0528
Q0529
Q0530
Q0531
Q0532
Q0534
D0901
D0902
D0903
D0904
D0905
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D0907
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D0910
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D0890
D0891
D0892
D0893
D0894
D0895
D0851
D0852
D0853
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D0860
D0861
D0862
D0863
D0864
D0865
D0866
D0867
D0868
D0869
D0870
D0401
D1403
D1103
D2502
D2503
D2505
C0612
C0609
C0609
C1423
C1415
C0621
C1412
C1414
C1403
C0904
C0914
C0883
C0896
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C0890
C0891
C0892
C0893
C0894
C0895
C0897
C0898
C0899
C0900
C0901
C0902
C0903
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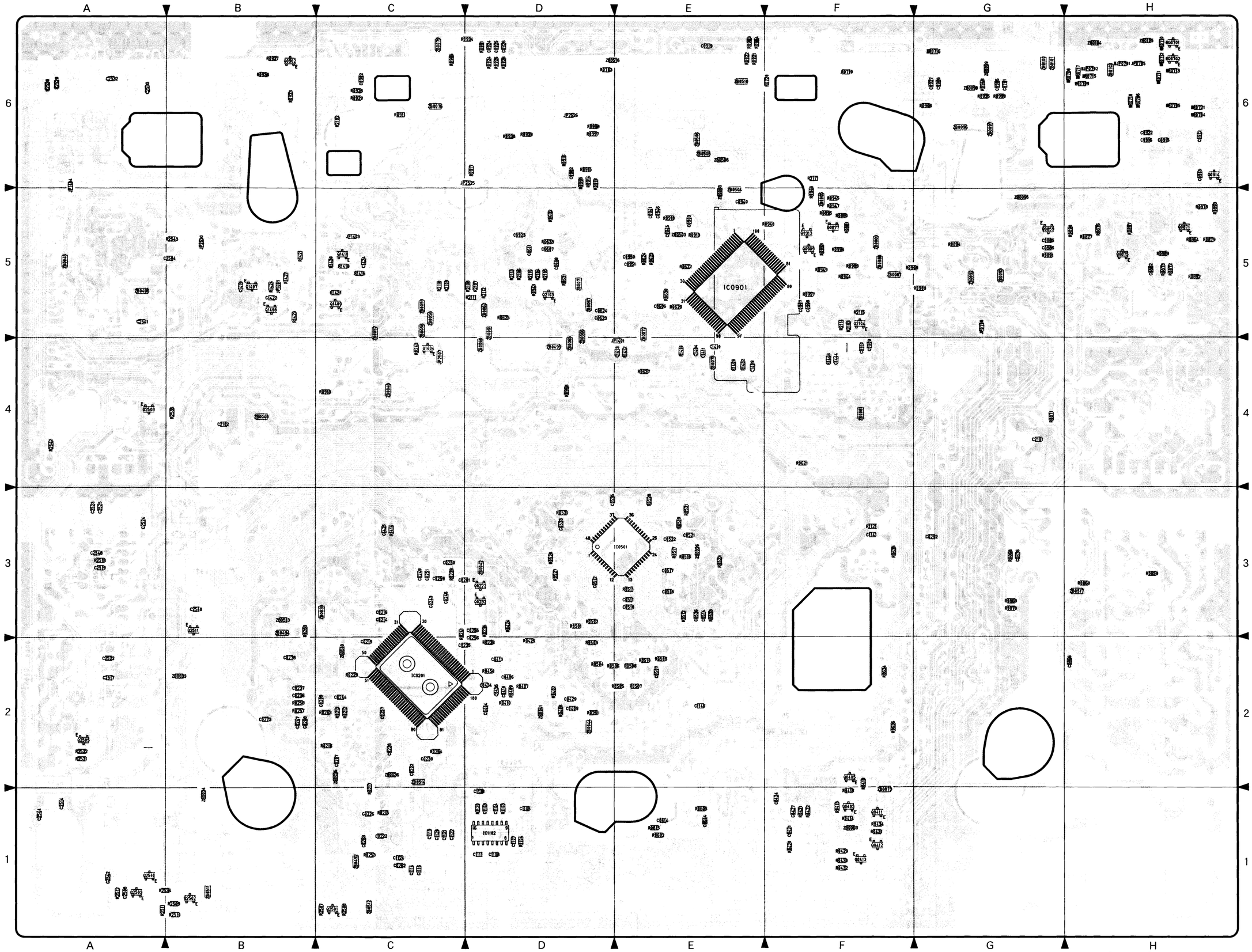
C0935
C0936

MAS CIRCUIT BOARD –SIDE B– [FOR VT-FX75xE/FX76xE]



MAS [MAIN] —SIDE B—
[PATTERN No. JK1365-4]
[FOR VT-FX75XE/FX76XE]

DIFFERENCE TABLE

MAS -SIDE B- [FOR VT-FX-75xE/FX76xE]

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

SYMBOL No.	FX750E (UKN)	FX75XE (NA/VPS)	FX760EX (UKN)	FX760E (NA)	FX765E (UKN)
JP0701	×	○	×	×	○
JP0702	○	×	○	○	×
Q0701	×	×	○	×	○
Q0702	×	×	○	×	○
R0704	×	JUMPER	×	×	JUMPER
R0705	×	○	×	×	○
R0706	×	○	×	×	○
R0708	×	○	×	×	○
R0709	×	○	×	×	○
R0710	×	×	○	×	○
R0711	×	×	○	×	○
R0712	×	×	○	×	○
R0713	×	×	○	×	○
R0715	×	○	×	×	○
R0716	×	○	×	×	○
R0717	×	○	×	×	○
R0718	×	○	×	×	○
R0721	×	○	×	×	○

IDENTIFICATION OF PARTS LOCATIONS

MAS [FOR VT-FX-75xE/FX76xE]

Symbol No	Parts Location
#	
#2501	A-5H
BL	
BL0601	A-2G
BL0602	A-3G
BL0603	A-1E
BL0604	A-1E
BL0851	A-2H
BL0852	A-2H
BL0853	A-2H
BL0871	A-4H
BL0872	A-4H
BL0873	A-4H
BL0874	A-4G
BL2501	A-6B
BL2502	A-6A
C	
C0201	B-3D
C0202	B-2C
C0203	A-1C
C0206	A-2C
C0207	B-2C
C0208	B-2B
C0209	B-2C
C0211	A-2B
C0213	A-2C
C0214	B-3C
C0215	A-3C
C0216	B-3C
C0218	A-2B
C0219	B-2C
C0220	A-2C
C0221	A-1C
C0222	B-1C
C0223	A-2C
C0226	B-1C
C0227	A-1C
C0228	B-2C
C0230	B-2C
C0233	A-2D
C0234	A-3D
C0235	B-2D
C0236	B-2B
C0237	B-2B
C0238	A-3C
C0239	A-3C
C0241	A-3C
C0242	A-2C
C0243	B-3C
C0244	B-2C
C0245	A-3C
C0246	B-3C
C0247	B-2B
C0249	B-3C
C0250	B-3C
C0251	B-3C
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PG2505	A-5A
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R1431	B-5C
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R1446	B-4F
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R2103	B-5F
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R2109	B-5C
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R2532	B-2A
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R2535	B-4B
R2542	B-4A
R2543	B-5B
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S0706	A-6G
S0707	A-6F
S0708	A-6G
S0709	A-6H
S0710	A-6H
S0711	A-6H
S0712	A-6H
S2101	A-5C
S2102	A-4G
S2103	A-6C
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T0401	A-1F
T0851	A-3H
X	
X0202	A-2C
X0901	A-5F
X0902	A-4F
X1401	A-4F
ZD	
ZD0871	A-5H
ZD0872	A-5G
ZD0896	A-5H
ZD0901	A-6H
ZD0903	A-6H
ZD2501	A-2A

IDENTIFICATION OF PARTS LOCATION

MAS [FOR VT-FX770E/MX730E]

Symbol No	Parts Location
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BL0602	A-3G
BL0603	A-1E
BL0604	A-1E
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BL0854	A-2G
BL0871	A-4H
BL0872	A-4H
BL0873	A-4H
BL0874	A-4G
BL2501	A-6B
BL2502	A-6A
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C0202	B-2C
C0203	A-1C
C0206	A-2C
C0207	B-2C
C0208	B-2B
C0209	B-2C
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C0624	B-5D
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C0858	A-2G
C0859	A-3H
C0860	A-2H
C0862	A-2H
C0863	A-3H
C0865	A-3H
C0866	B-2H
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C1112	A-1C
C1114	B-1C
C1115	A-1C
C1116	B-1C
C1117	A-1C
C1119	B-1C
C1120	B-1C
C1121	B-1C
C1122	B-1C
C1124	B-1C
C1125	A-2D
C1126	A-2C
C1138	B-1D
C1139	B-2D
C1140	B-2E
C1141	B-3F
C1403	A-4E
C1404	B-4E
C1409	B-4E
C1410	B-4E
C1411	B-4E
C1412	A-4E
C1413	B-4E
C1414	A-4E
C1415	A-5D
C1419	B-5B
C1422	B-5B
C1423	A-5B
C1424	B-5C
C1425	B-3C
C1444	B-4F
C2101	B-4G
C2102	B-4B
C2503	A-2B
C2504	B-5B
C2507	A-1B
C2508	B-1A
C2509	A-2A
C2513	A-1A
C2514	B-1A
C2515	A-1A
C2517	B-2A
C2518	A-2A
C2519	B-3A
C2520	A-3A
C2521	A-2A
C2522	B-2A
C2523	B-3A
C2524	B-3A
C2525	B-3A
C2532	B-6A
C2533	B-6A
C2534	A-3A
C2540	B-3B
C2541	B-5A
C2542	B-1A
C2543	A-6A
C2544	B-1A
C2545	A-3A
C2546	A-5A
C2548	B-3A
D	
D0206	A-2E
D0207	A-2E
D0401	A-2F
D0851	A-2H
D0852	A-2H
D0853	A-3H
D0854	A-3H
D0855	A-3H
D0871	A-4H
D0872	A-4H
D0873	A-4H
D0876	A-5G
D0877	A-5F
D0878	A-5H
D0896	A-6G
D0897	A-6G
D0898	A-6G
D0901	A-6G
D0906	A-5G
D0907	A-5G
D0908	A-5G
D0909	A-5G
D0912	A-6G
D0913	A-6G
D1103	A-1D
D1403	A-3B
D2501	A-6B
D2502	A-4A
D2503	A-5H
D2505	A-1D
F	
F0851	A-1G
FE	
FE2501	A-2A
IC	
IC0201	B-2C
IC0501	B-3E
IC0851	A-3H
IC0871	A-3G
IC0901	B-5E
IC0902	A-6G
IC0903	A-6C
IC0904	A-6H
IC0905	A-5D
IC1102	B-1D
IC2101	A-5F
IC2102	A-5D
IC2501	A-5B
JK	
JK2503	A-6A
JP	
JP0504	B-3D
JP0701	B-6H
JP0702	B-6H
JP1401	B-4E
JP1402	B-5C
JP1403	B-5C
JP1404	B-6A
JP1405	B-4F
JP1406	A-4E
JP1410	B-4E
JP2509	A-1B
JP2518	B-5A
JP2521	A-3A
JP2522	A-5A
JP2523	A-4A
JP2530	B-5B
JP2560	A-3D
L	
L0201	A-2C
L0202	A-2B
L0205	A-3C
L0207	A-3C
L0208	A-2B
L0210	A-2B
L0401	A-2D
L0403	A-1F
L0501	A-3E
L0851	A-1H
L0871	A-4G
L0872	A-4H
L0901	A-5G
L1101	A-2D
L1102	A-2D
L1105	A-2D
L1402	A-4E
L2501	A-1A
L2502	A-3B
L2504	A-3A
L2505	A-3A
L2507	A-5A
LD	
LD2101	A-4D
PC	
PC0851	A-3H
PC0852	A-3H
PG	
PG0401	A-2B
PG0402	A-1F
PG0601	A-2E
PG0602	A-1E
PG0701	A-6H
PG0702	A-6E
PG0703	A-6C
PG0851	A-1G
PG0901	A-6E
PG1101	A-1D
PG2501	A-1E
PG2502	A-1B
PG2503	A-5A
PG2505	A-5A
PG2508	A-2B
PG2511	A-5A
PG2512	A-6A
PG2513	A-2A
PG2515	A-6A
PG2516	A-6A
Q	
Q0202	B-1C
Q0219	B-2C
Q0222	B-3D
Q0229	B-2E
Q0232	B-3D
Q0234	B-2E
Q0403	B-1F
Q0405	B-2F
Q0406	A-1F
Q0411	B-1F
Q0412	B-1F
Q0413	B-1F
Q0701	B-6H
Q0702	B-6H
Q0853	A-5H
Q0859	B-5G
Q0871	B-5H
Q0873	A-5H
Q0874	A-5H
Q0875	B-5H
Q0876	A-5G
Q0877	B-5F
Q0878	A-5H
Q0879	A-5H
Q0880	A-5H
Q0896	A-5H
Q0901	A-6B
Q0902	B-6B
Q0909	B-5F
Q0913	B-5F
Q0914	B-6H
Q1104	B-1C
Q1404	B-4C
Q1407	B-5B
Q1408	B-5B
Q1409	B-5C
Q1410	B-5C
Q2101	A-4G
Q2102	A-4B
Q2103	B-5D
Q2104	B-5F
Q2501	B-1C
Q2502	B-1B
Q2503	B-1A
Q2505	B-2A
Q2506	A-2A
Q2508	B-4A
Q2511	B-3B
QF	
QF0871	A-5H
QF0872	A-5G
QF0873	A-5F
R	
R0212	B-2C
R0213	B-2C
R0215	B-1C
R0216	B-2C
R0217	B-1C
R0228	B-2F
R0229	B-2C
R0230	B-2E
R0236	B-3D
R0238	B-2D
R0239	B-3C
R0241	B-3C
R0243	B-4C
R0253	B-1C
R0256	B-2B
R0257	B-2B
R0258	B-2B
R0261	B-2D
R0263	B-2C
R0264	B-2C
R0269	B-3B
R0402	B-2D
R0403	B-2D
R0404	B-2D
R0407	B-2D
R0408	B-2D
R0409	B-2D
R0410	B-2D
R0413	B-1F
R0414	B-1F
R0418	B-1F
R0419	B-2F
R0420	B-1F
R0421	B-1F
R0422	B-1F
R0423	A-2D
R0424	B-3D
R0425	B-2D
R0429	B-1F
R0430	B-1F
R0431	B-1F
R0432	B-1F
R0434	B-1F
R0435	B-2D
R0436	B-2D
R0450	B-2D
R0501	B-3D
R0502	B-3D
R0503	B-2D
R0504	B-2D
R0505	B-2E
R0506	B-2E
R0507	B-2E
R0508	B-2E
R0509	B-2E
R0510	B-2E
R0511	B-3E
R0512	B-3E
R0516	B-3E
R0517	B-3E
R0518	A-3E
R0519	B-3E
R0520	A-3E
R0521	B-3E
R0522	A-3E
R0523	B-3E
R0524	A-3E
R0525	A-3E
R0526	B-3D
R0527	B-3D
R0528	B-3E
R0529	A-4D
R0530	A-4D
R0531	B-3D
R0532	A-2E
R0533	B-3E
R0534	A-3E
R0602	B-1E
R0605	B-1E
R0615	B-1E
R0616	A-1E
R0621	B-4F
R0622	B-5E
R0623	B-5E
R0624	B-5E
R0625	B-5D
R0629	B-5E
R0630	B-5E
R0631	B-5D
R0632	B-5D
R0633	B-5D
R0634	B-2F
R0635	B-3F
R0636	B-2F
R0637	B-4E
R0701	A-6H
R0702	A-6H
R0703	B-6D
R0704	B-6H
R0705	B-6H
R0706	B-6H
R0707	A-6H
R0708	B-6H
R0709	B-6H
R0710	B-6H
R0711	B-6H
R0712	B-6H
R0713	B-6H
R0714	A-6H
R0715	B-6H
R0716	B-6G
R0717	B-6H
R0718	B-6H
R0719	B-6F
R0720	B-6F
R0721	B-6H
R0852	A-1H
R0854	A-2H
R0855	A-2H
R0856	A-2H
R0859	B-3H
R0860	B-3H
R0861	A-2H
R0862	A-2H
R0863	A-3H
R0864	B-5H
R0866	A-3G
R0867	A-3G
R0868	B-3G
R0869	B-3G
R0870	B-3G
R0871	B-4H
R0872	B-5H
R0873	B-5H
R0874	A-5H
R0875	A-5H
R0876	B-5H
R0877	B-5H
R0878	B-5H
R0879	B-5H
R0880	B-5F
R0881	B-5F
R0885	A-5G
R0886	A-5G
R0887	A-5G
R0888	A-5H
R0889	B-5H
R0890	B-5H
R0891	B-5G
R0892	B-5H
R0893	B-5H
R0894	B-5G
R0895	B-5F
R0896	A-5H
R0897	B-5H
R0898	B-6G
R0906	B-6G
R0907	A-6C
R0908	B-5F
R0909	B-5G
R0910	B-5E
R0911	B-6C
R0913	B-5E
R0914	B-6D
R0915	B-6D
R0916	B-6D
R0917	B-6D
R0918	B-4C
R0919	B-6D
R0920	A-6C
R0921	B-6E
R0922	B-6E
R0923	A-6B
R0924	B-6D
R0925	B-6D
R0926	B-6D
R0927	B-6D
R0928	B-6C
R0929	B-6C
R0934	B-6D
R0935	B-6G
R0936	B-6B
R0937	B-6B
R0938	B-6D
R0939	B-6D
R0940	B-5F
R0943	B-5D
R0944	B-5F
R0945	B-5F
R0946	B-5F
R0947	B-5F
R0948	B-6G
R0949	B-5F
R0957	B-5F
R0960	A-5E
R0964	B-6D
R0967	A-2G
R0968	B-4D
R0972	A-5C
R0976	A-6H
R0977	A-5G
R0978	A-6E
R0983	B-6E
R0984	B-6E
R0985	B-6C
R0989	B-5F
R0991	B-6D
R0993	B-5F
R0995	B-6D
R0996	B-5F
R0997	B-6D
R0998	B-6D
R0999	B-6G
R1103	B-1D
R1104	B-1D
R1120	B-1D
R1121	B-3F
R1409	B-4E
R1410	B-4E
R1412	B-4E
R1414	B-3C
R1416	B-5C
R1418	B-5C
R1421	B-5B
R1423	A-5B
R1424	B-5B
R1427	B-5B
R1429	B-5B
R1430	B-5C
R1431	B-5C
R1432	B-4E
R1446	B-4F
R2101	A-4G
R2102	B-6C
R2103	B-5F
R2104	B-5D
R2105	B-5D
R2106	B-5D
R2107	B-5D
R2108	B-5D
R2109	B-5C
R2110	B-5C
R2111	B-5D
R2112	B-5D
R2113	B-5D
R2114	B-5F
R2115	B-5F
R2116	B-5D
R2117	B-6F
R2505	B-2A
R2506	A-1B
R2507	B-1C
R2508	B-1C
R2509	B-1B
R2510	B-1B
R2511	B-1A
R2512	B-1A
R2514	A-2A
R2518	B-3A
R2529	B-6A
R2530	B-6A
R2531	B-2A
R2532	B-2A
R2534	B-1B
R2535	B-4B
R2542	B-4A
R2543	B-5B
S	
S0704	A-6G
S0706	A-6G
S0707	A-6F
S0708	A-6G
S0709	A-6H
S0710	A-6H
S0711	A-6H
S0712	A-6H
S2101	A-5C
S2102	A-4G
S2103	A-6C
T	
T0401	A-1F
T0851	A-3H
X	
X0202	A-2C
X0901	A-5F
X0902	A-4F
X1401	A-4F
ZB	
ZB0060	B-4D
ZB0061	B-5D
ZB0080	B-6C
ZD	
ZD0871	A-5H
ZD0872	A-5G
ZD0896	A-5H
ZD0901	A-6H
ZD0903	A-6H
ZD2501	A-2A

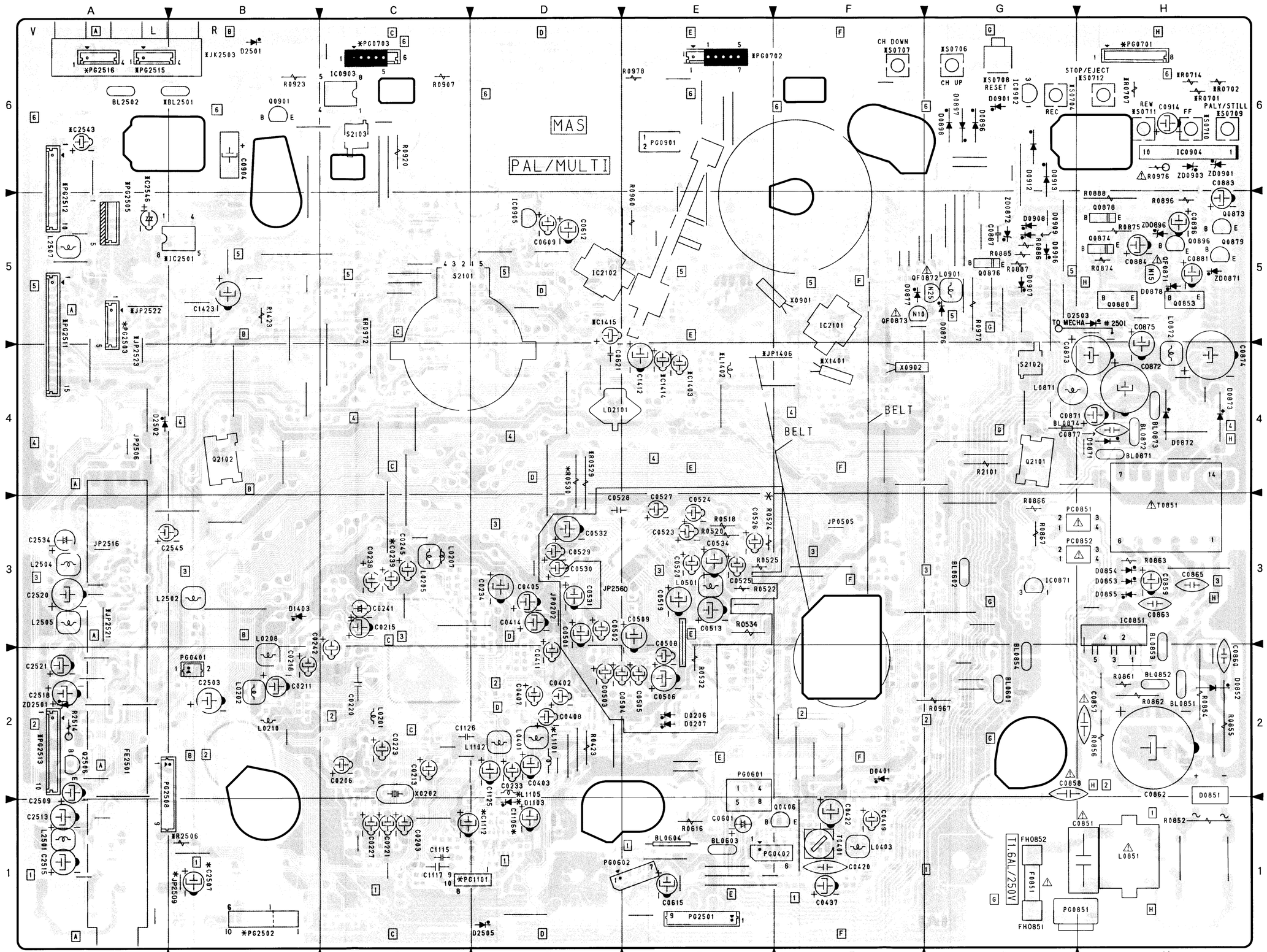
DIFFERENCE TABLE

MAS -SIDE A- [FOR VT-FX770E/MX730E]

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

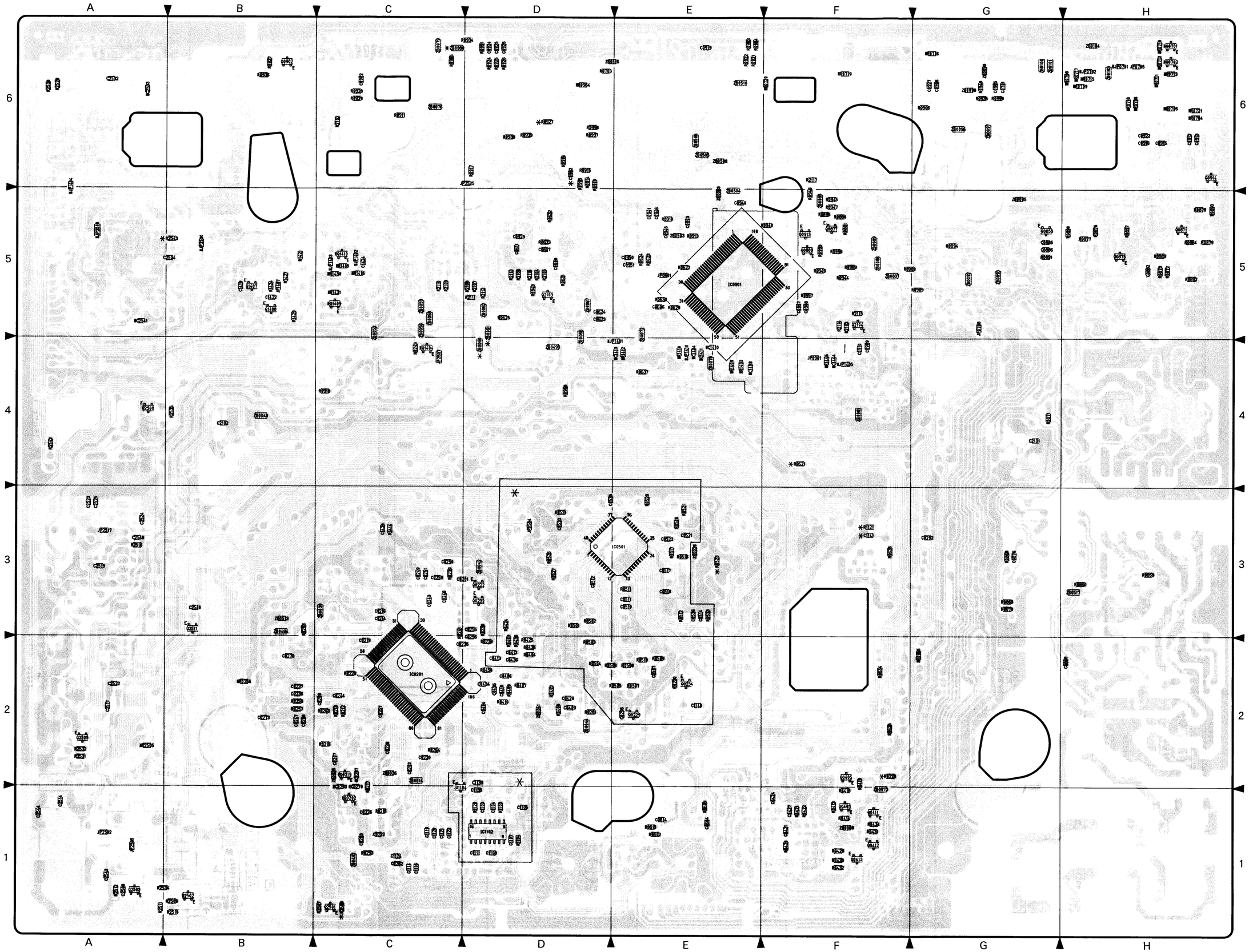
SYMBOL No.	FX770E (UKN/NAV)	MX730E (UKN)
BL2501	○	×
C0239	×	○
C0501	○	×
C0502	○	×
C0503	○	×
C0504	○	×
C0505	○	×
C0506	○	×
C0508	○	×
C0509	○	×
C0513	○	×
C0519	○	×
C0520	○	×
C0523	○	×
C0524	○	×
C0525	○	×
C0526	○	×
C0527	○	×
C0528	○	×
C0529	○	×
C0530	○	×
C0531	○	×
C0532	○	×
C0534	○	×
C1106	○	×
C1112	○	×
C1403	×	○
C1414	JUMPER	○
C1415	×	○
C2507	○	JUMPER
C2543	○	×
C2546	○	×
D0206	○	×
D0207	○	×
D1103	○	×
IC2501	○	×
JK2503	×	○
JP1406	×	○
JP2509	×	○
JP2521	○	×
JP2522	○	×
JP2523	○	×
JP2560	×	○
L0501	○	×
L1101	○	×
L1105	○	×
L1402	×	○
PG0701	○	×
PG0702	7P	5P
PG0703	6P	5P
PG1101	10P	8P
PG2502	10P	6P
PG2503	○	×
PG2505	○	×
PG2511	○	×
PG2512	○	×
PG2513	○	×
PG2515	○	×
PG2516	○	×
R0518	○	×
R0520	○	×
R0522	○	×
R0524	○	×
R0525	○	×
R0529	○	×
R0530	○	×

SYMBOL No.	FX770E (UKN/NAV)	MX730E (UKN)
R0532	○	×
R0534	○	×
R0701	○	×
R0702	○	×
R0707	×	○
R0714	○	×
R0972	×	JUMPER
R2506	JUMPER	○
S0704	×	○
S0706	×	○
S0707	×	○
S0708	×	○
S0709	×	○
S0710	×	○
S0711	×	○
S0712	×	○
X1401	×	○



MAS [MAIN] —SIDE A—
[PATTERN No. JK1365-6]
[FOR VT-FX770E/FX730E]

MAS CIRCUIT BOARD –SIDE B– [FOR VT-FX770E/MX730E]



MAS [MAIN] —SIDE B—
[PATTERN No. JK1365-6]
[FOR VT-FX770E/FX730E]

DIFFERENCE TABLE

MAS -SIDE B- [FOR VT-FX770E/MX730E]

NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams.

SYMBOL No.	FX770E (UKN/NAV)	MX730E (UKN)
C0270	○	×
C0293	○	×
C0296	○	×
C0297	○	×
C0412	×	○
C0413	○	×
C0436	×	○
C0507	○	×
C0510	○	×
C0511	○	×
C0512	○	×
C0514	○	×
C0517	○	×
C0518	○	×
C0521	○	×
C0522	○	×
C0533	○	×
C0535	○	×
C0536	○	×
C0982	0.01	10K
C1103	○	×
C1104	○	×
C1105	○	×
C1107	○	×
C1108	○	×
C1111	○	×
C1138	○	×
C1139	○	×
C1140	○	×
C1141	○	×
C1404	JUMPER	○
C1409	×	○
C1410	JUMPER	○
C1411	JUMPER	○
C1413	JUMPER	○
C1444	×	○
C2533	○	×
C2541	○	×
IC0501	○	×
IC1102	○	×
JP0504	×	○
JP0701	×	○
JP0702	○	×
JP1401	×	○
JP1402	○	×
JP1403	×	○
JP1404	×	○
JP1405	○	×
JP1410	○	×
JP2518	×	○
JP2530	×	○
Q0202	○	×
Q0219	○	×
Q0229	○	×
Q0234	○	×
Q0701	○	×
Q0702	○	×
Q1104	○	×
Q1404	×	○
Q1409	×	○
Q1410	×	○
R0228	JUMPER	×
R0230	○	×
R0256	○	×
R0403	×	○
R0404	×	○

SYMBOL No.	FX770E (UKN/NAV)	MX730E (UKN)
R0424	○	×
R0425	○	×
R0435	×	○
R0436	×	○
R0501	○	×
R0502	○	×
R0503	○	×
R0504	○	×
R0505	○	×
R0506	○	×
R0507	○	×
R0508	○	×
R0509	○	×
R0510	○	×
R0511	○	×
R0512	○	×
R0516	○	×
R0517	○	×
R0519	○	×
R0521	○	×
R0523	○	×
R0526	○	JUMPER
R0527	○	JUMPER
R0528	○	×
R0531	○	×
R0533	○	×
R0621	○	×
R0704	×	JUMPER
R0705	×	○
R0706	×	○
R0708	×	○
R0709	×	○
R0710	○	×
R0711	○	×
R0712	○	×
R0713	○	×
R0715	×	○
R0716	×	○
R0717	×	○
R0718	×	○
R0719	JUMPER	○
R0720	JUMPER	○
R0721	×	○
R0927	○	×
R0964	○	×
R0965	○	×
R1103	○	×
R1104	○	×
R1120	○	×
R1121	○	×
R1409	×	○
R1410	×	○
R1412	JUMPER	○
R1416	×	○
R1418	×	○
R1430	×	○
R1431	×	○
R1432	×	○
R1446	×	○
R2505	○	×
R2508	○	×
R2543	○	×
ZB0060	×	○
ZB0061	×	○
ZB0080	○	×

IDENTIFICATION OF PARTS LOCATIONS

MAS [FOR VT-FX770E/MX730E]

Symbol No	Parts Location
#	
#2501	A-5H
BL	
BL0601	A-2G
BL0602	A-3G
BL0603	A-1E
BL0604	A-1E
BL0851	A-2H
BL0852	A-2H
BL0853	A-2H
BL0854	A-2G
BL0871	A-4H
BL0872	A-4H
BL0873	A-4H
BL0874	A-4G
BL2501	A-6B
BL2502	A-6A
C	
C0201	B-3D
C0202	B-2C
C0203	A-1C
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D2505	A-1D
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R0893	B-5H
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R1431	B-5C
R1432	B-4E
R1446	B-4F
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R2107	B-5D
R2108	B-5D
R2109	B-5C
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R2531	B-2A
R2532	B-2A
R2534	B-1B
R2535	B-4B
R2542	B-4A
R2543	B-5B
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S0706	A-6G
S0707	A-6F
S0708	A-6G
S0709	A-6H
S0710	A-6H
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S0712	A-6H
S2101	A-5C
S2102	A-4G
S2103	A-6C
T	
T0401	A-1F
T0851	A-3H
X	
X0202	A-2C
X0901	A-5F
X0902	A-4F
X1401	A-4F
ZB	
ZB0060	B-4D
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ZB0080	B-6C
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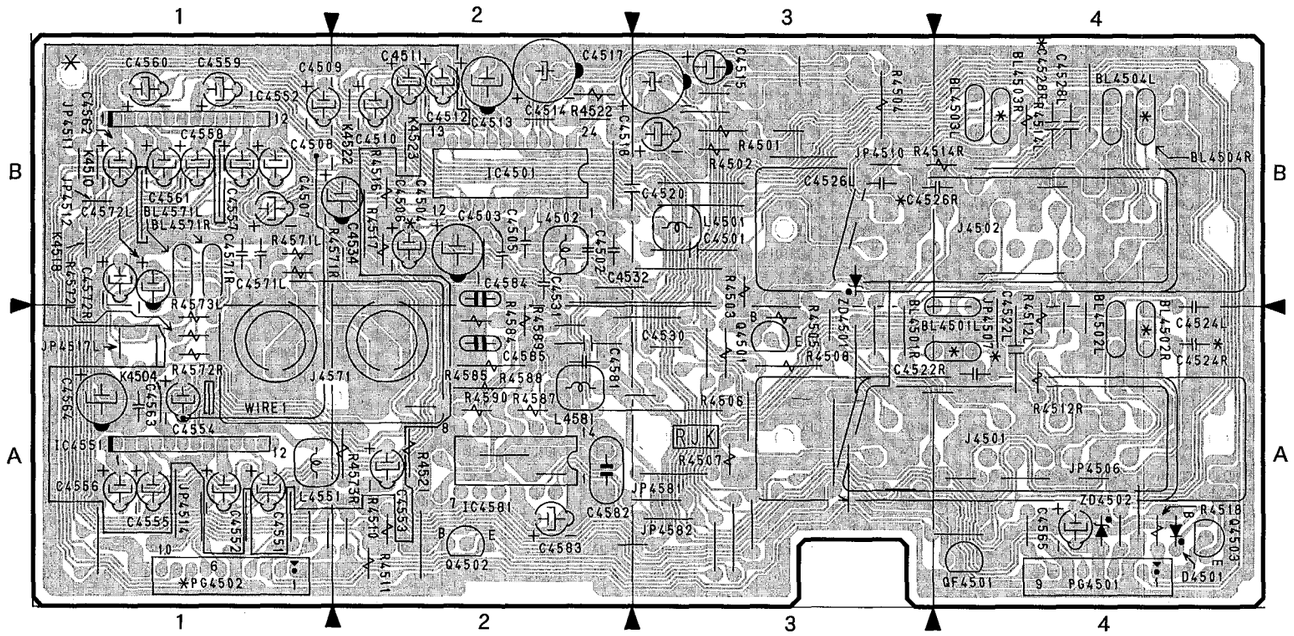

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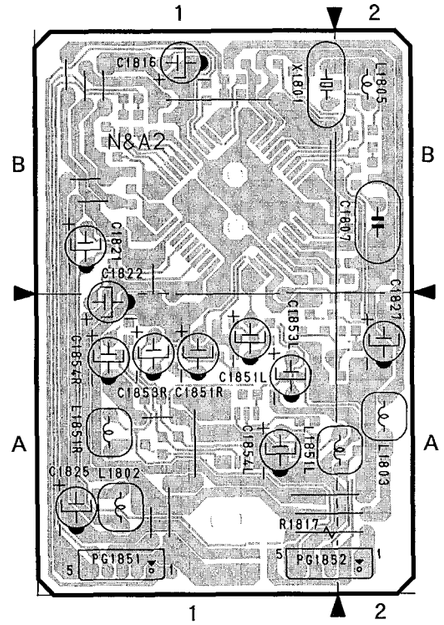

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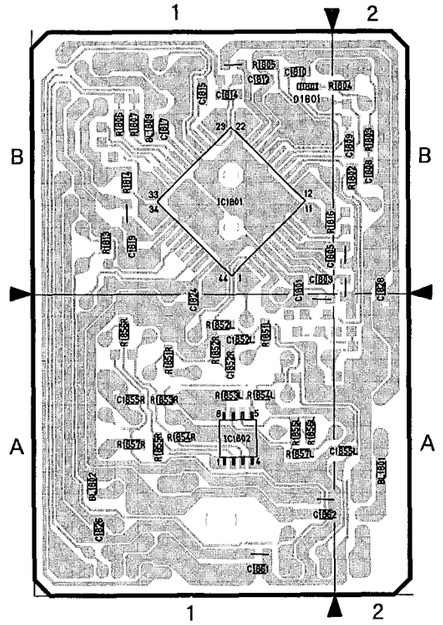

N&A [NICAM] —SIDE B—
[PATTERN No. JK1360-3]
[FOR UKN,UK,NA,NAV]

IDENTIFICATION OF PARTS LOCATION

RJK

Symbol No	Parts Location
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BL4501R	4A
BL4502L	4A
BL4502R	4A
BL4503L	4B
BL4503R	4B
BL4504L	4B
BL4504R	4B
BL4571L	1B
BL4571R	1B
C	
C4501	3B
C4502	2B
C4503	2B
C4504	2B
C4505	2B
C4506	2B
C4507	1B
C4508	1B
C4509	1B
C4510	2B
C4511	2B
C4512	2B
C4513	2B
C4514	2B
C4515	3B
C4517	3B
C4518	3B
C4520	3B
C4522L	4A
C4522R	4A
C4524L	4A
C4524R	4A
C4526L	3B
C4526R	4B
C4528L	4B
C4528R	4B
C4530	2A
C4531	2B
C4532	2B
C4534	2B
C4551	1A
C4552	1A
C4553	2A
C4554	1A
C4555	1A
C4556	1A
C4557	1B
C4558	1B
C4559	1B
C4560	1B
C4561	1B
C4562	1B
C4563	1A
C4564	1A
C4565	4A
C4571L	1B
C4571R	1B
C4572L	1B
C4572R	1B
C4581	2A
C4582	2A
C4583	2A
C4584	2B
C4585	2A
D	
D4501	4A
IC	
IC4501	2B
IC4551	1A
IC4552	1B
IC4581	2A
J	
J4501	4A
J4502	4B
J4571	1A
JP	
JP4507	4A
JP4511	1B
JP4512	1B
K	
K4504	1A
K4510	1B
K4518	1B
K4522	2B
K4523	2B
L	
L4501	3B
L4502	2B
L4551	1A
L4581	2A
PG	
PG4501	4A
PG4502	1A
Q	
Q4501	3A
Q4502	2A
Q4503	4A
QF	
QF4501	4A
R	
R4501	3B
R4502	3B
R4503	3B
R4504	3B
R4505	3A
R4506	3A
R4507	3A
R4508	3A
R4510	2A
R4511	2A
R4512L	4A
R4512R	4A
R4514L	4B
R4514R	4B
R4516	2B
R4517	2B
R4518	4A
R4521	2A
R4522	2B
R4571L	1B
R4571R	1B
R4572L	1A
R4572R	1A
R4573L	1A
R4573R	2A
R4584	2A
R4585	2A
R4587	2A
R4588	2A
R4589	2A
R4590	2A
WIRE	
WIRE0001	1A
ZD	
ZD4501	3B
ZD4502	4A

DIFFERENCE TABLE

RJK

NOTE: This table listes the different componentsmarked with asterisks (*) in the circuit board diagrams

SYMBOL No.	FX75XE FX76XE FX770E	MX730E
BL4501R	○	×
BL4502R	○	×
BL4503R	○	×
BL4504R	○	×
BL4571L	○	×
BL4571R	○	×
C4506	×	○
C4507	×	○
C4508	×	○
C4509	×	○
C4510	×	○
C4511	×	○
C4512	×	○
C4524R	○	×
C4526R	○	×
C4528R	○	×
C4534	○	×
C4551	○	×
C4552	○	×
C4553	○	×
C4554	○	×
C4555	○	×
C4556	○	×
C4557	○	×
C4558	○	×
C4559	○	×
C4560	○	×
C4561	○	×

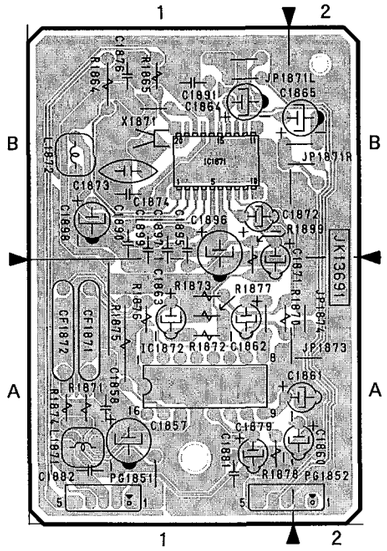
SYMBOL No.	FX75XE FX76XE FX770E	MX730E
C4562	○	×
C4563	○	×
C4564	○	×
C4571L	○	×
C4571R	○	×
C4572L	○	×
C4572R	○	×
IC4551	○	×
IC4552	○	×
J4571	○	×
JP4507	×	○
JP4510	×	○
JP4511	×	○
JP4512	○	×
K4504	○	×
K4510	×	○
K4518	×	○
K4522	×	○
K4523	×	○
L5551	○	×
PG4502	10P	6P
R4571L	○	×
R4571R	○	×
R4572L	○	×
R4572R	○	×
R4573L	○	×
R4573R	○	×
WIRE1	○	×

IDENTIFICATION OF PARTS LOCATION

N&A

Symbol No	Parts Location
BL	
BL1801	B-2A
BL1802	B-1A
BL1809	B-1B
C	
C1801	B-1B
C1803	B-1B
C1805	B-1B
C1807	A-2B
C1808	B-2B
C1809	B-2B
C1810	B-1B
C1812	B-1B
C1814	B-1B
C1815	B-1B
C1816	A-1B
C1817	B-1B
C1819	B-1B
C1821	A-1B
C1822	A-1A
C1824	B-1A
C1825	A-1A
C1826	B-1A
C1827	A-2A
C1828	B-2B
C1851L	A-1A
C1851R	A-1A
C1852L	B-1A
C1852R	B-1A
C1853L	A-1A
C1853R	A-1A
C1854L	A-1A
C1854R	A-1A
C1855L	B-2A
C1855R	B-1A
C1861	B-1A
C1862	B-1A
D	
D1801	B-1B
IC	
IC1801	B-1B
L	
L1802	A-1A
L1803	A-2A
L1805	A-2B
L1851L	A-2A
L1851R	A-1A
PG	
PG1851	A-1A
PG1852	A-1A
R	
R1802	B-2B
R1803	B-2B
R1804	B-2B
R1805	B-1B
R1806	B-1B
R1807	B-1B
R1813	B-1B
R1814	B-1B
R1816	B-1B
R1817	A-1A
R1851L	B-1A
R1851R	B-1A
R1852L	B-1A
R1852R	B-1A
R1853L	B-1A
R1853R	B-1A
R1854L	B-1A
R1854R	B-1A
R1855L	B-1A
R1855R	B-1A
R1856L	B-1A
R1856R	B-1A
R1857L	B-1A
R1857R	B-1A
X	
X1801	A-1B

A2, LED, STL, LCD CIRCUIT BOARDS

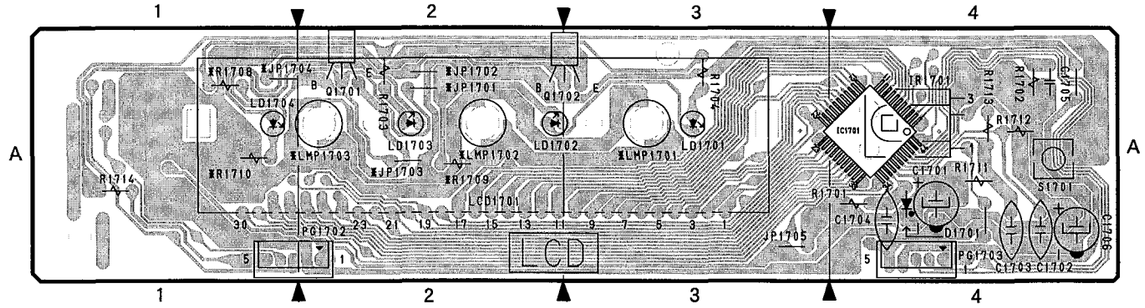


A2 [A2]
[PATTERN No. JK1369-2]
[FOR VPS]

IDENTIFICATION OF PARTS LOCATIONS

A2

Symbol No	Parts Location
C	
C1857	1A
C1858	1A
C1860	2A
C1861	2A
C1862	1A
C1863	1A
C1864	1B
C1865	2B
C1871	1A
C1872	1B
C1873	1B
C1874	1B
C1876	1B
C1879	1A
C1881	1A
C1882	1A
C1890	1B
C1891	1B
C1895	1B
C1896	1B
C1897	1B
C1898	1B
C1899	1B
CF	
CF1871	1A
CF1872	1A
IC	
IC1871	1B
IC1872	1A
L	
L1871	1A
L1872	1B
PG	
PG1851	1A
PG1852	1A
R	
R1864	1B
R1865	1B
R1870	1A
R1871	1A
R1872	1A
R1873	1A
R1874	1A
R1875	1A
R1876	1A
R1877	1A
R1878	1A
R1899	1A
X	
X1871	1B



LCD [LCD DISPLAY]
[PATTERN No. JK1361-2]
[EXCEPT FOR VT-FX770E]

IDENTIFICATION OF PARTS LOCATION

STL

Symbol No	Parts Location
JP	
JP2703	1B
LD	
LD2701	1A
PG	
PG2701	2B
R	
R2701	2B
R2702	2B
R2703	2B
R2704	2B
R2705	1A
R2706	1A
R2707	1A
R2708	2A
R2709	2A
R2710	2A
R2711	2A
R2712	2A
R2713	1A
R2714	1B
S	
S2701	2B
S2702	1A
S2703	2B
S2704	2A
S2705	1A
S2706	1B
S2707	3B
S2710	3B
S2712	2A
S2713	2A
S2714	2A
S2715	1A
S2716	1A

LCD

Symbol No	Parts Location
C	
C1701	4A
C1702	4A
C1703	4A
C1704	4A
C1705	4A
C1706	4A
D	
D1701	4A
IC	
IC1701	4A
IR	
IR1701	4A
JP	
JP1701	2A
JP1702	2A
LCD	
LCD1701	2A
LD	
LD1701	3A
LD1702	2A
LD1703	2A
LD1704	1A
LMP	
LMP1701	3A
LMP1702	2A
LMP1703	2A
PG	
PG1702	1A
PG1703	4A
Q	
Q1701	2A
Q1702	3A
R	
R1701	4A
R1702	4A
R1703	2A
R1704	3A
R1708	1A
R1709	2A
R1710	1A
R1711	4A
R1712	4A
R1713	4A
R1714	1A
S	
S1701	4A

DIFFERENCE TABLE

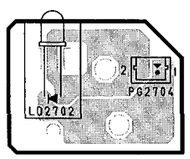
NOTE: This table listes the different components marked with asterisks (*) in the circuit board diagrams

LCD

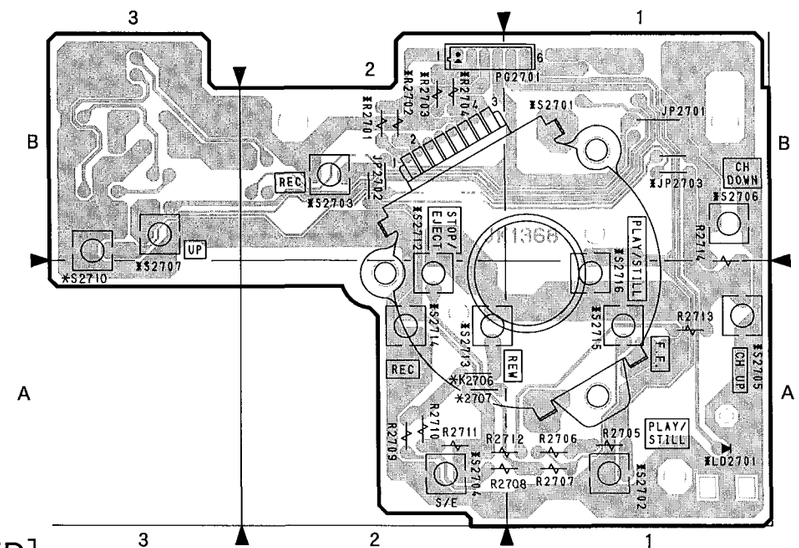
SYMBOL No	FX75XE	FX76XE
JP1701	×	○
JP1702	○	×
JP1703	○	×
JP1704	×	○
LMP1701	×	○
LMP1702	×	○
LMP1703	×	○
R1708	×	○
R1709	○	×
R1710	○	×

STL

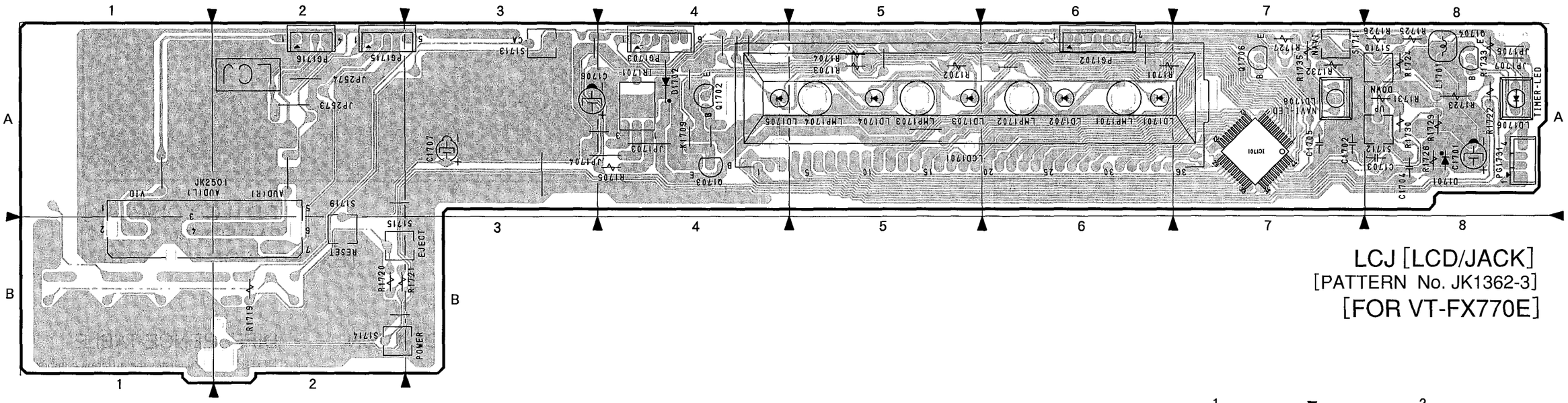
SYMBOL No.	FX760E (UKN)	FX760E (NA)	FX750E (UKN)
JP2703	×	×	○
K2706	×	×	○
K2707	×	×	○
LD2701	○	×	×
R2701	○	○	×
R2702	○	○	×
R2703	○	○	×
R2704	○	○	×
S2701	○	○	×
S2702	○	○	×
S2703	○	○	×
S2704	○	○	×
S2705	○	○	×
S2706	○	○	×
S2707	×	×	○
S2710	×	×	○
S2712	×	×	○
S2713	×	×	○
S2714	×	×	○
S2715	×	×	○
S2716	×	×	○



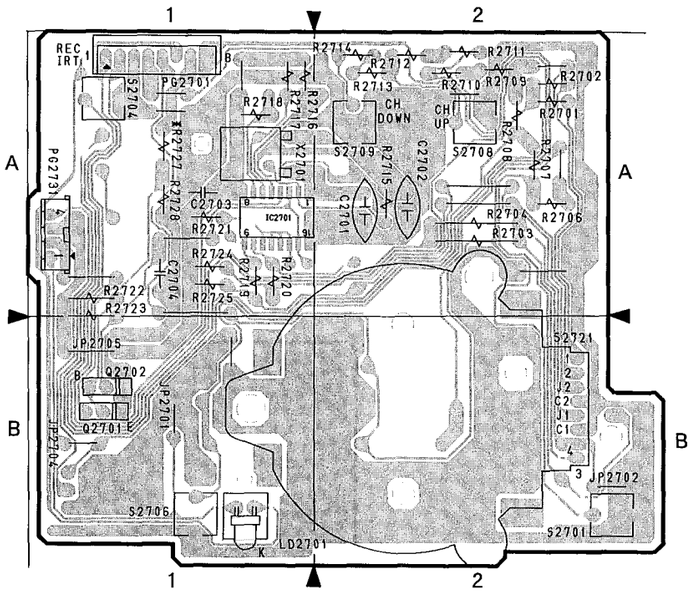
LED [LED]
[PATTERN No. JK1365-4]
[FOR VT-FX765E]



STL [SHUTTLE SWITCH]
[PATTERN No. JK1368-2]
[FOR VT-FX75XE/FX76XE]



LCJ [LCD/JACK]
[PATTERN No. JK1362-3]
[FOR VT-FX770E]



FST [FRONT SHUTTLE]
[PATTERN No. JK1362-3]
[FOR VT-FX770E]

IDENTIFICATION OF PARTS LOCATION

LCJ

Symbol No	Parts Location
C	
C1701	8A
C1702	7A
C1703	8A
C1704	8A
C1705	7A
C1706	3A
C1707	3A
D	
D1701	8A
D1702	4A
IC	
IC1701	7A
IR	
IR1701	4A
JK	
JK2501	1B
L	
L1701	8A
LCD	
LCD1701	5A
LD	
LD1701	6A
LD1702	6A
LD1703	5A
LD1704	5A

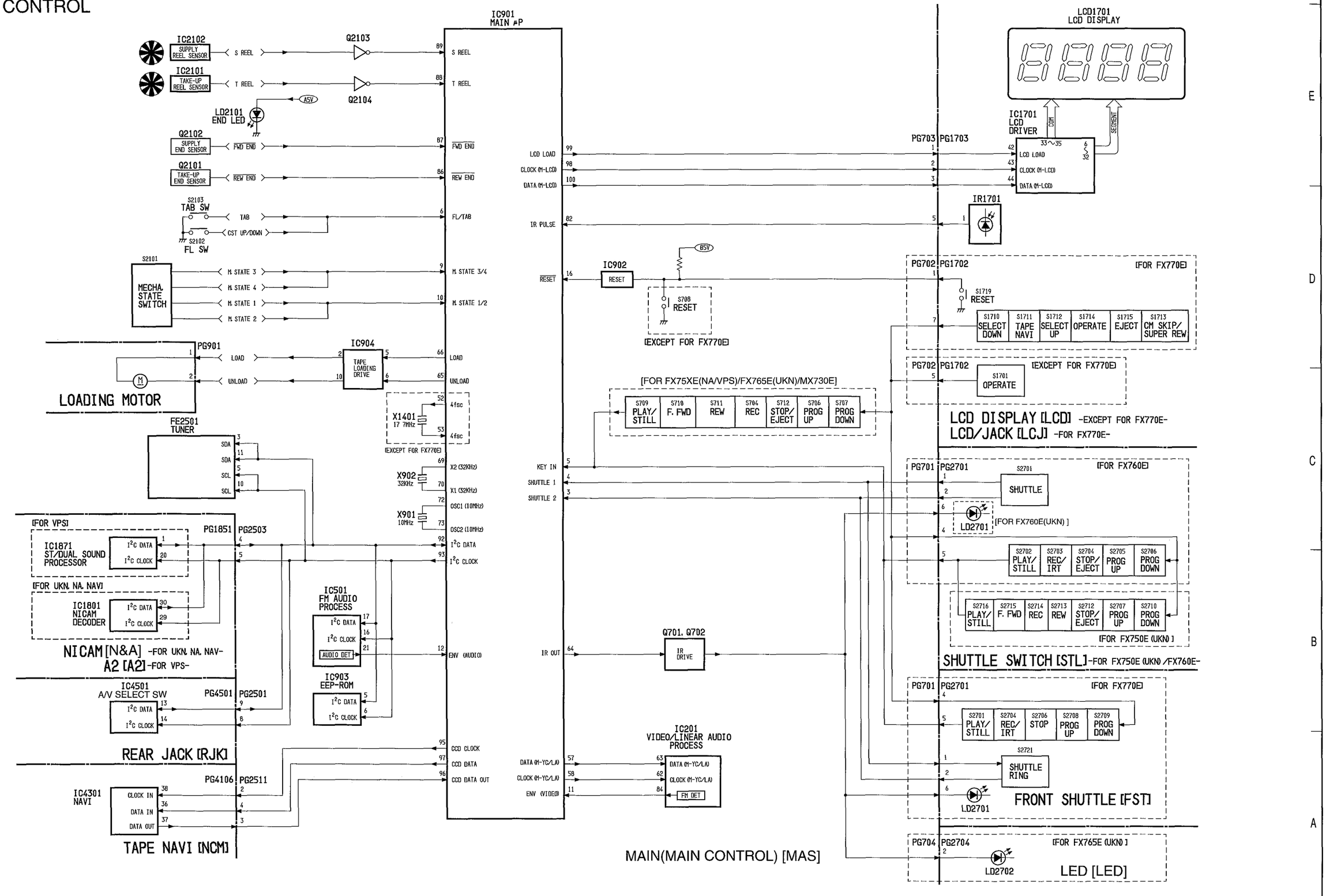
Symbol No	Parts Location
LD1705	4A
LD1706	8A
LD1708	7A
LMP	
LMP1701	6A
LMP1702	6A
LMP1703	5A
LMP1704	5A
PG	
PG1702	6A
PG1703	4A
PG1715	2A
PG1716	2A
PG1731	8A
Q	
Q1702	4A
Q1703	4A
Q1704	8A
Q1706	7A
R	
R1701	6A
R1702	5A
R1703	5A
R1704	5A
R1705	4A
R1719	2B

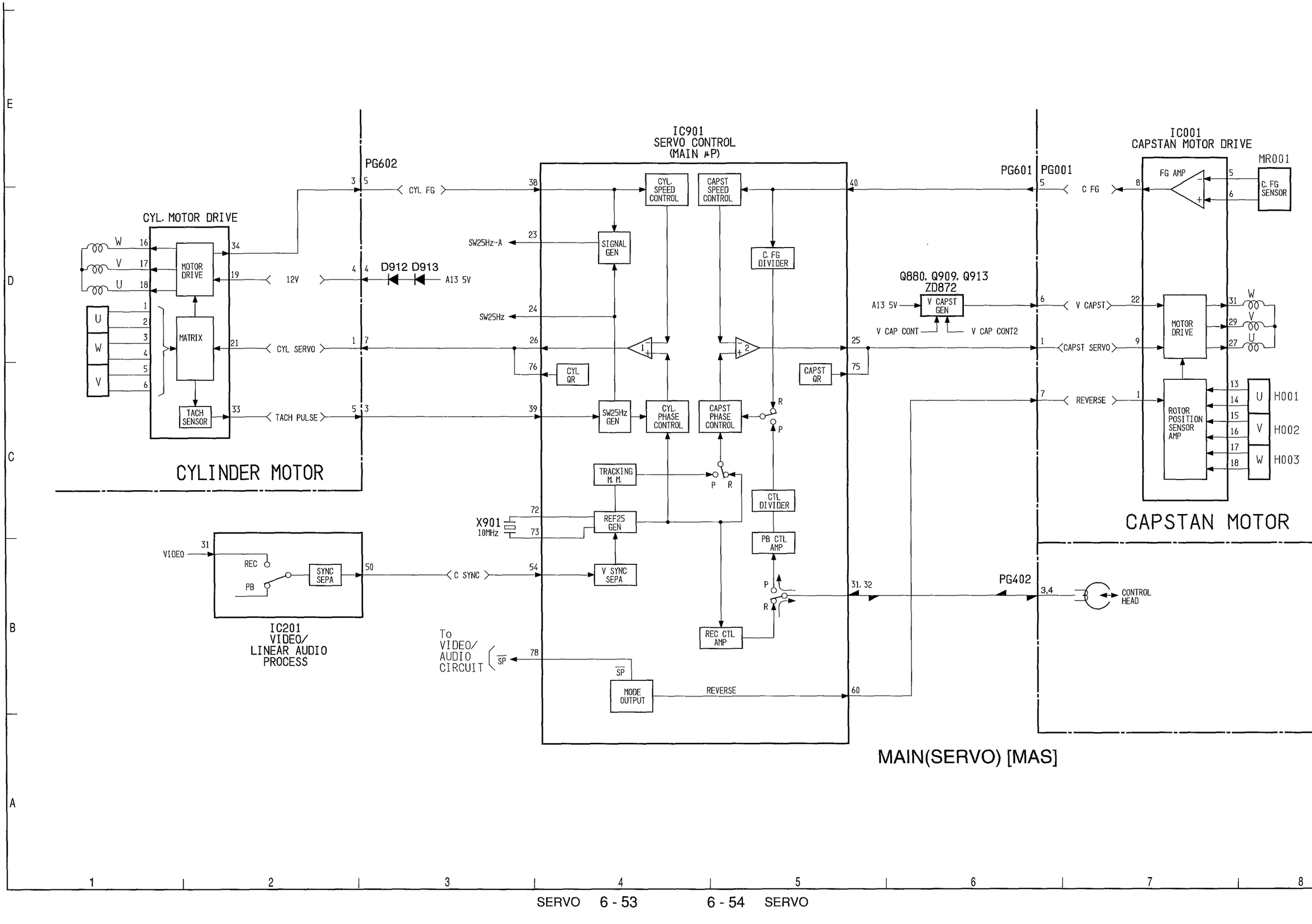
Symbol No	Parts Location
R1720	2B
R1721	2B
R1722	8A
R1723	8A
R1724	8A
R1725	8A
R1726	8A
R1727	7A
R1728	8A
R1729	8A
R1730	8A
R1731	8A
R1732	7A
R1733	8A
R1735	7A
S	
S1710	8A
S1711	7A
S1712	8A
S1713	3A
S1714	2B
S1715	2B
S1719	2B

FST

Symbol No	Parts Location
C	
C2701	2A
C2702	2A
C2703	1A
C2704	1A
IC	
IC2701	1A
LD	
LD2701	1B
PG	
PG2701	1A
PG2731	1A
Q	
Q2701	1B
Q2702	1B
R	
R2701	2A
R2702	2A
R2703	2A
R2704	2A
R2706	2A
R2707	2A
R2708	2A
R2709	2A
R2710	2A
R2711	2A

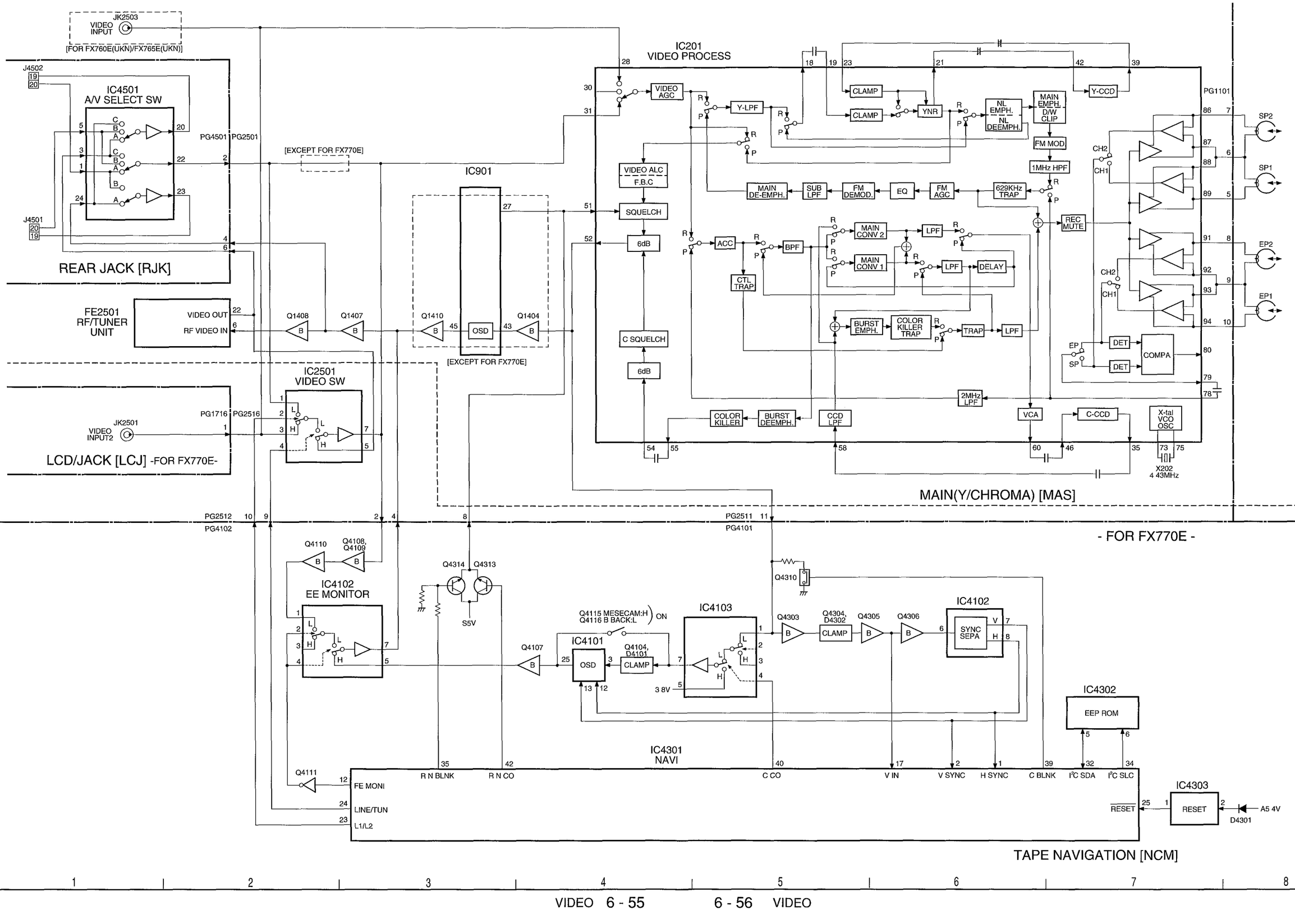
Symbol No	Parts Location
R2712	2A
R2713	2A
R2714	2A
R2715	2A
R2716	1A
R2717	1A
R2718	1A
R2719	1A
R2720	1A
R2721	1A
R2722	1A
R2723	1A
R2724	1A
R2725	1A
R2727	1A
R2728	1A
S	
S2701	3B
S2704	1A
S2706	1B
S2708	2A
S2709	2A
S2721	2B
X	
X2701	1A

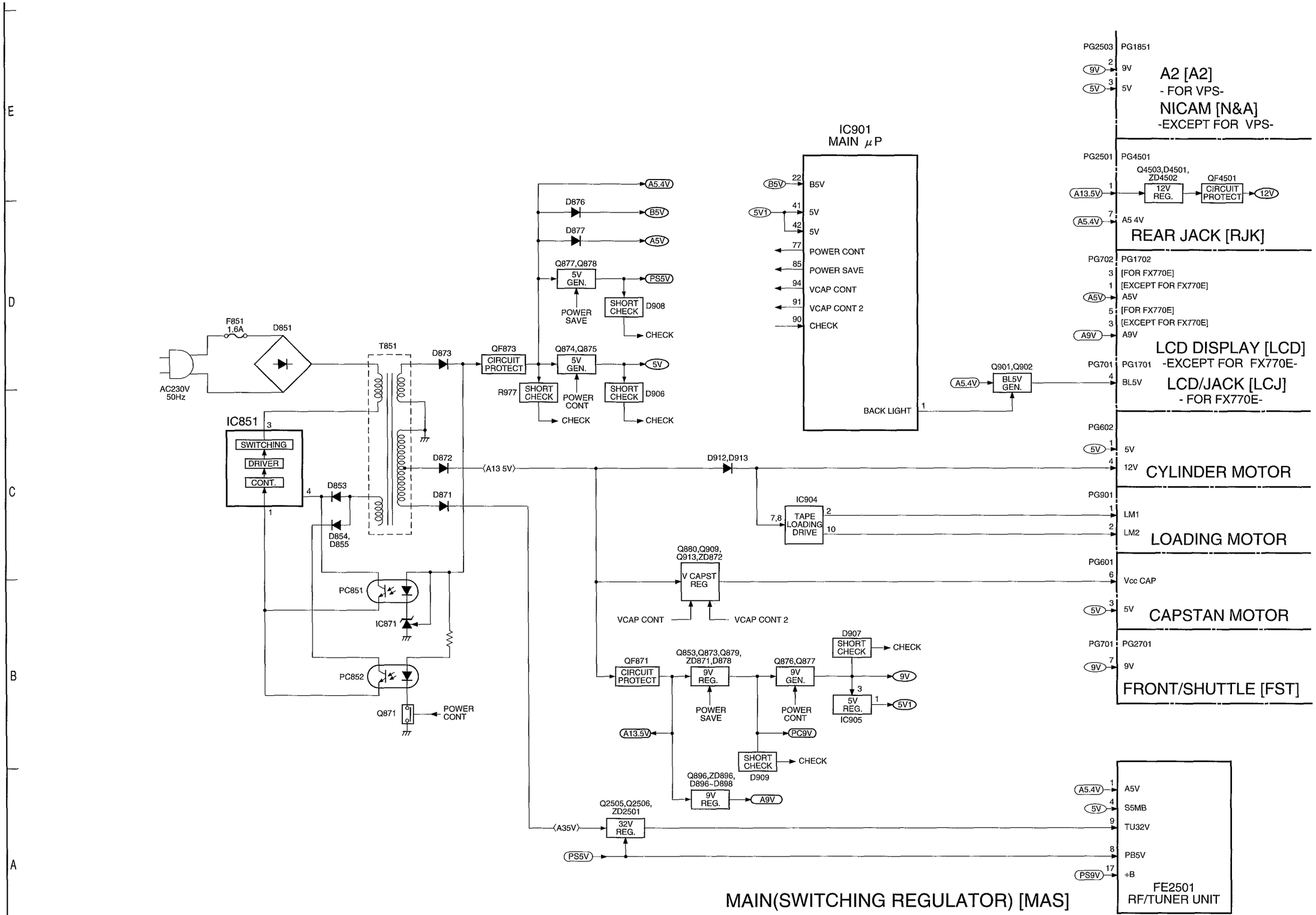

IC901
MAIN μP
IC2102
SUPPLY REEL SENSOR
S REEL
Q2103
IC2101
TAKE-UP REEL SENSOR
T REEL
Q2104
A5V
LD2101
END LED
Q2102
SUPPLY END SENSOR
FWD END
Q2101
TAKE-UP END SENSOR
REW END
S2103
TAB SW
TAB
CST UP/DOWN
S2102
FL SW
FL/TAB
S2101
MECHA. STATE SWITCH
M. STATE 3
M. STATE 4
M. STATE 1
M. STATE 2
M. STATE 3/4
M. STATE 1/2
PG901
LOAD
UNLOAD
LOADING MOTOR
IC904
TAPE LOADING DRIVE
LOAD
UNLOAD
X1401
17.7MHz
4fsc
(EXCEPT FOR FX770E)
FE2501
TUNER
SDA
SCL
X902
32KHz
X2 (32KHz)
X1 (32KHz)
X901
10MHz
OSC1 (10MHz)
OSC2 (10MHz)
I²C DATA
I²C CLOCK
(FOR VPS)
PG1851
PG2503
IC1871
ST./DUAL SOUND PROCESSOR
(FOR UKN, NA, NAV)
IC1801
NICAM DECODER
NICAM [N&A] -FOR UKN, NA, NAV-
A2 [A2] -FOR VPS-
IC501
FM AUDIO PROCESS
AUDIO DET
ENV (AUDIO)
IC903
EEP-ROM
IC4501
A/V SELECT SW
PG4501
PG2501
REAR JACK [RJK]
CCD CLOCK
CCD DATA
CCD DATA OUT
PG4106
PG2511
IC4301
NAVI
CLOCK IN
DATA IN
DATA OUT
TAPE NAVI [NCM]
LCD LOAD
CLOCK (H-LCD)
DATA (H-LCD)
IR PULSE
RESET
IC902
B5V
S708
RESET
(EXCEPT FOR FX770E)
KEY IN
SHUTTLE 1
SHUTTLE 2
IR OUT
Q701, Q702
IR DRIVE
IC201
VIDEO/LINEAR AUDIO PROCESS
DATA (H-YC/LA)
CLOCK (H-YC/LA)
ENV (VIDEO)
FM DET
MAIN(MAIN CONTROL) [MAS]
[FOR FX75XE(NA/VPS)/FX765E(UKN)/MX730E]
S709 PLAY/STILL
S710 F. FWD
S711 REW
S704 REC
S712 STOP/EJECT
S706 PROG UP
S707 PROG DOWN
LCD1701
LCD DISPLAY
IC1701
LCD DRIVER
COM
SEGMENT
PG703 PG1703
IR1701
PG702 PG1702
(FOR FX770E)
S1719
RESET
S1710 SELECT DOWN
S1711 TAPE NAVI
S1712 SELECT UP
S1714 OPERATE
S1715 EJECT
S1713 CM SKIP/SUPER REW
S1701
OPERATE
LCD DISPLAY [LCD] -EXCEPT FOR FX770E-
LCD/JACK [LCJ] -FOR FX770E-
PG701 PG2701
(FOR FX760E)
S2701
SHUTTLE
LD2701
(FOR FX760E(UKN))
S2702 PLAY/STILL
S2703 REC/IRT
S2704 STOP/EJECT
S2705 PROG UP
S2706 PROG DOWN
S2716 PLAY/STILL
S2715 F. FWD
S2714 REC
S2713 REW
S2712 STOP/EJECT
S2707 PROG UP
S2710 PROG DOWN
(FOR FX750E (UKN))
SHUTTLE SWITCH [STL] -FOR FX750E (UKN) /FX760E-
(FOR FX770E)
S2701 PLAY/STILL
S2704 REC/IRT
S2706 STOP
S2708 PROG UP
S2709 PROG DOWN
S2721
SHUTTLE RING
FRONT SHUTTLE [FST]
PG704 PG2704
(FOR FX765E (UKN))
LD2702
LED [LED]



MAIN(SERVO) [MAS]

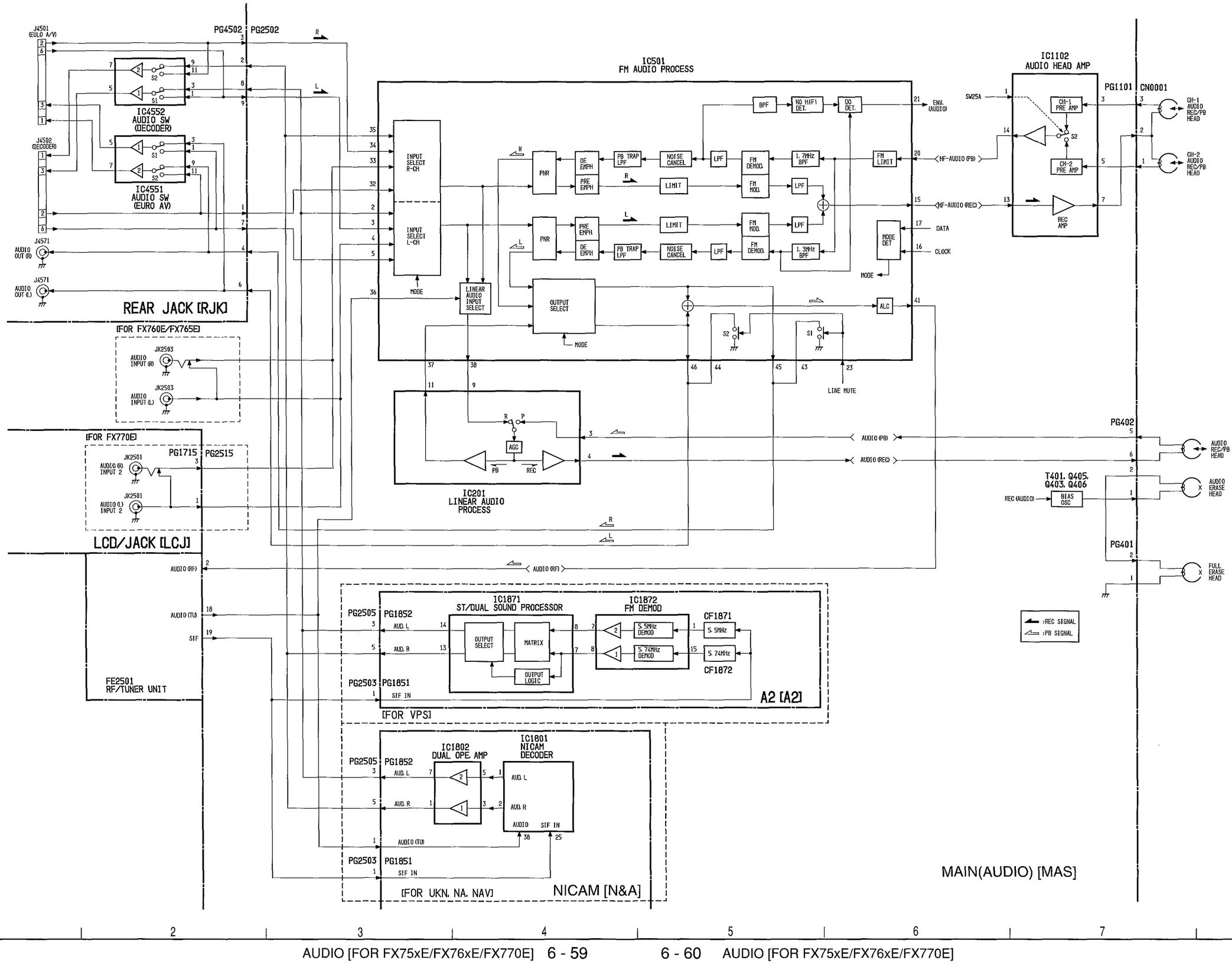
VIDEO

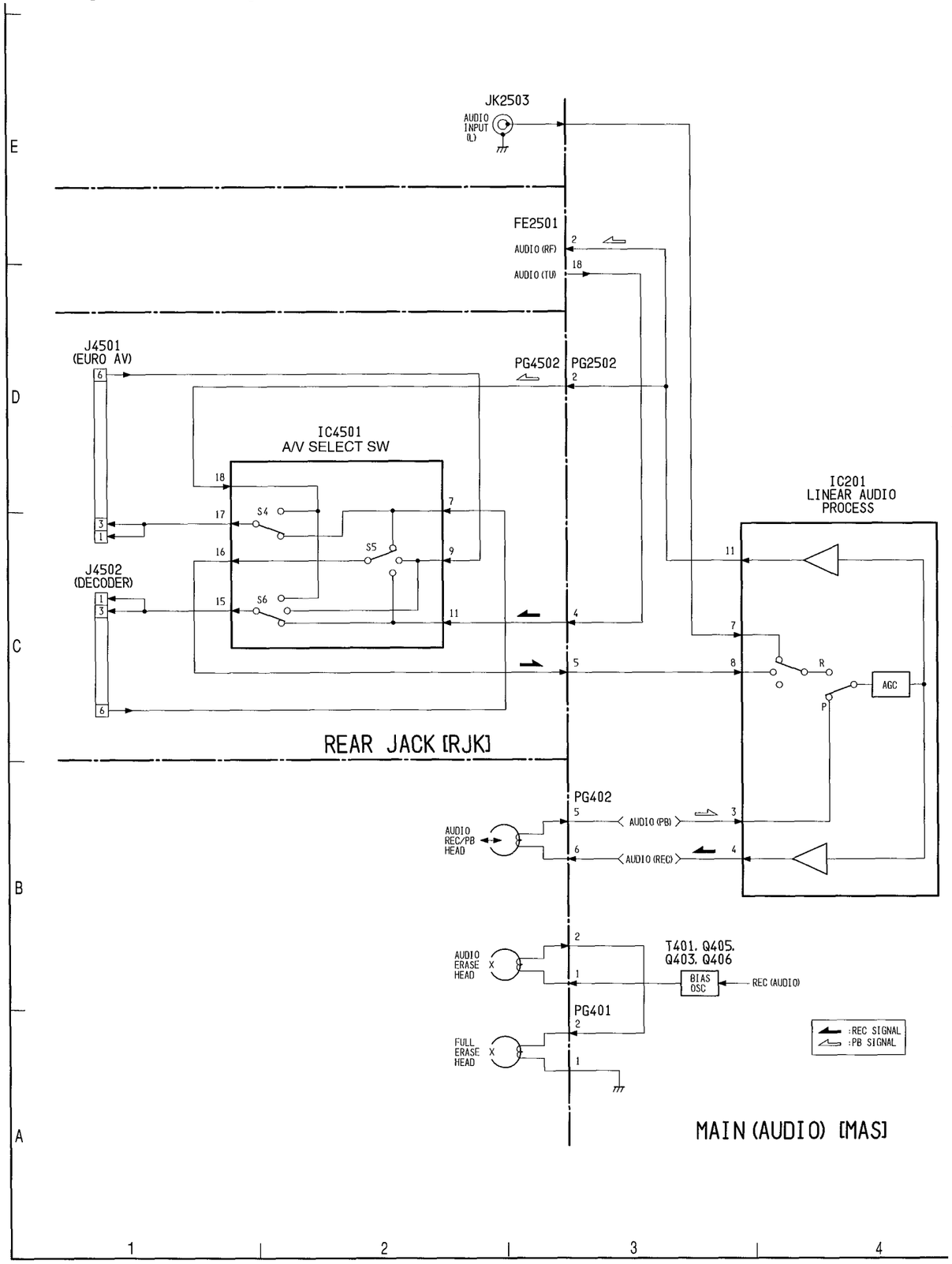

JK2503
VIDEO INPUT
[FOR FX760E(UKN)/FX765E(UKN)]
J4502
IC4501
A/V SELECT SW
PG4501 PG2501
[EXCEPT FOR FX770E]
IC901
J4501
REAR JACK [RJK]
FE2501
RF/TUNER
UNIT
VIDEO OUT
RF VIDEO IN
Q1408
Q1407
Q1410
OSD
Q1404
[EXCEPT FOR FX770E]
IC2501
VIDEO SW
PG1716 PG2516
JK2501
VIDEO INPUT2
LCD/JACK [LCJ] -FOR FX770E-
IC201
VIDEO PROCESS
VIDEO AGC
Y-LPF
CLAMP
YNR
NL EMPH.
NL DEEMPH.
MAIN EMPH. D/W CLIP
Y-CCD
FM MOD.
1MHz HPF
629KHz TRAP
FM AGC
EQ
FM DEMOD.
SUB LPF
MAIN DE-EMPH.
VIDEO ALC
F.B.C
SQUELCH
6dB
C SQUELCH
6dB
ACC
BPF
CTL TRAP
MAIN CONV 2
MAIN CONV 1
LPF
DELAY
BURST EMPH.
COLOR KILLER TRAP
TRAP
LPF
REC MUTE
2MHz LPF
COLOR KILLER
BURST DEEMPH.
CCD LPF
VCA
C-CCD
X-tal VCO OSC
X202
4 43MHz
PG1101
SP2
SP1
EP2
EP1
CH2
CH1
DET
COMPA
EP
SP
MAIN(Y/CHROMA) [MAS]
PG2512
PG4102
PG2511
PG4101
- FOR FX770E -
Q4110
Q4108, Q4109
IC4102
EE MONITOR
Q4314
Q4313
S5V
Q4115 MESECAM:H
Q4116 B BACK:L
ON
IC4101
OSD
Q4104, D4101
CLAMP
Q4107
IC4103
Q4310
Q4303
Q4304, D4302
CLAMP
Q4305
Q4306
IC4102
SYNC SEPA
IC4302
EEP ROM
IC4301
NAVI
Q4111
FE MONI
LINE/TUN
L1/L2
R N BLNK
R N CO
C CO
V IN
V SYNC
H SYNC
C BLNK
I²C SDA
I²C SLC
IC4303
RESET
A5 4V
D4301
TAPE NAVIGATION [NCM]



MAIN(SWITCHING REGULATOR) [MAS]

AUDIO [FOR FX75xE/FX76xE/FX770E]





MICROPROCESSOR PIN FUNCTION TABLES

1. LCD DRIVER μP (IC1701)

Pin No.	I/O	Active Level	Abbreviation	Function
1	–	–	SEGMENT (1)	Not used.
2 | 5	–	–	SEGMENT (2) | SEGMENT (5)	
6	O	Pulse	SEGMENT (6)	LCD segment control outputs
7 | 31	O	Pulse	SEGMENT (7) | SEGMENT (31)	
32	O	Pulse	SEGMENT (32)	
33	O	Pulse	COM1	LCD common (COM) control outputs
34	O	Pulse	COM2	
35	O	Pulse	COM3	
36	I	Lo	RESET (L)	Initializes the LCD-μP when power is supplied.
37	I	Hi	VDD	A5V power input
38	I	–	VDD 1	LCD drive bias
39	I	–	VDD 2	LCD drive bias
40	I	Lo	VSS	Ground
41	I/O	–	OSC	Generates a 32kHz signal for key scanning.
42	I	Lo	LCD LOAD	LOAD signal between the LCD-μP and M-μP. "Lo" input enables chip select.
43	I	Pulse	CLOCK (M-LCD)	The data is transferred from the M-μP, synchronized with the clock signal
44	I	Pulse	DATA (M-LCD)	

2. MAIN μP (IC901)

<table>
<tr><th>Pin No.</th><th>I/O</th><th>Active Level</th><th>Abbreviation</th><th>Function</th></tr>
<tr><td>1</td><td>O</td><td>Hi</td><td>BACK LIGHT</td><td>LCD backlight control signal. When LED lights: "L"; When LAMP lights: "H".</td></tr>
<tr><td>2</td><td>–</td><td>–</td><td>GND</td><td>Ground</td></tr>
<tr><td>3</td><td>I</td><td>A/D</td><td>SHUTTLE 2 (CLOCK FAST)</td><td rowspan="2">SHUTTLE A/D input signals
<table><tr><td></td><td>–X11</td><td>–X5</td><td>–X1</td><td>–X1/7</td><td>0</td><td>X1/7</td><td>X1</td><td>X5</td><td>X11</td></tr><tr><td>SHU 1</td><td>2.5/1.9</td><td>1.9/2.5</td><td>2.5</td><td>1.9</td><td>5.0</td><td>3.2</td><td>5.0</td><td>5.0/3.2</td><td>5.0/3.2</td></tr><tr><td>SHU 2</td><td>2.5</td><td>1.9</td><td>3.2</td><td>3.2/5.0</td><td>5.0</td><td>5.0/3.2</td><td>3.2</td><td>1.9</td><td>2.5</td></tr></table>* CLOCK FAST when SHUTTLE 2 is 5 V or less</td></tr>
<tr><td>4</td><td>I</td><td>A/D</td><td>SHUTTLE 1</td></tr>
<tr><td>5</td><td>I</td><td>A/D</td><td>KEY IN</td><td>Front key voltage data input</td></tr>
<tr><td>6</td><td>I</td><td>A/D</td><td>FL/TAB</td><td>FL mechanism loading/unloading detection, and TAB detection. Loading/unloading completed: 1.24 V or more; In transition state: less than 1.24 V / TAB present: 3.75 V or more</td></tr>
<tr><td>7</td><td>I</td><td>Lo</td><td>P STOP</td><td>Power failure detection signal. "L" is input when power failure is detected ("L" when microprocessor voltage is 4.7 V or less).</td></tr>
<tr><td>8</td><td>I</td><td>Hi</td><td>S. CURVE</td><td>Fine tuning detection signal</td></tr>
<tr><td>9</td><td>I</td><td>A/D</td><td>MODE 2</td><td rowspan="2">Mechanism mode switching signals
<table><tr><td>Position</td><td>2
UL</td><td>8
FF/REW</td><td>7
STP2</td><td>6
R/P</td><td>1
FL</td><td>5
FS</td><td>4
RFS</td><td>3
REV</td></tr><tr><td>MODE 1</td><td>3.05</td><td>3.0</td><td>2.50</td><td>1.80</td><td>1.80</td><td>0.00</td><td>0.00</td><td>0.00V</td></tr><tr><td>MODE 2</td><td>2.50</td><td>0.00</td><td>2.50</td><td>3.05</td><td>0.00</td><td>3.05</td><td>2.50</td><td>1.80V</td></tr></table></td></tr>
<tr><td>10</td><td>I</td><td>A/D</td><td>MODE 1</td></tr>
<tr><td>11</td><td>I</td><td>A/D</td><td>VIDEO ENV</td><td rowspan="2">Signals are A/D converted and input for autotracking</td></tr>
<tr><td>12</td><td>I</td><td>A/D</td><td>AUDIO ENV</td></tr>
<tr><td>13</td><td>I</td><td>A/D</td><td>MDOEL SW</td><td>Switches models according to the input signal.</td></tr>
<tr><td>14</td><td>I</td><td>A/D</td><td>DEC IN</td><td>DECODER detection signal</td></tr>
<tr><td>15</td><td>I</td><td>–</td><td>VREF</td><td>A/D converter reference voltage</td></tr>
<tr><td>16</td><td>I</td><td>Lo</td><td>RESET</td><td>"L" input resets the microprocessor.</td></tr>
<tr><td>17</td><td>O</td><td>–</td><td>NC</td><td></td></tr>
<tr><td>18</td><td>O</td><td>Hi</td><td>ST/SAP OUT</td><td>When SAP audio is output: "H"</td></tr>
<tr><td>19</td><td>O</td><td>Hi</td><td>GREEN MODE</td><td>GREEN MODE output. GREEN MODE: "H"</td></tr>
<tr><td>20</td><td>O</td><td>–</td><td>NC</td><td></td></tr>
<tr><td>21</td><td>O</td><td>–</td><td>NC</td><td></td></tr>
<tr><td>22</td><td>I</td><td>–</td><td>VCC</td><td>Connected to backup power supply.</td></tr>
<tr><td>23</td><td>O</td><td>Pulse</td><td>SW25A</td><td>SW25 pulse for switching Hi-Fi heads</td></tr>
<tr><td>24</td><td>O</td><td>Pulse</td><td>SW25</td><td>SW25 pulse for switching WYC heads</td></tr>
<tr><td>25</td><td>O</td><td>PWM</td><td>CAP PWM</td><td>Capstan motor control PWM output</td></tr>
<tr><td>26</td><td>O</td><td>PWM</td><td>DRUM PWM</td><td>Drum motor control PWM output</td></tr>
<tr><td>27</td><td>O</td><td>Hi</td><td>V PULSE</td><td>Artificial V sync pulse output</td></tr>
<tr><td>28</td><td>O</td><td>Pulse</td><td>C. ROTARY</td><td>Chroma rotation control signal. EX-OR with SW25 and H.AMP SW.</td></tr>
<tr><td>29</td><td>O</td><td>Hi/Lo</td><td>H. AMP SW</td><td>DA4 head switching signal</td></tr>
<tr><td>30</td><td>I</td><td>Hi/Lo</td><td>COMP</td><td>Compares outputs from SP and LP heads: when the LP head output is higher, "H" is input.</td></tr>
<tr><td>31</td><td>I/O</td><td>Pulse</td><td>CTL H (+)</td><td>CTL pulse input/output</td></tr>
<tr><td>32</td><td>I/O</td><td>Pulse</td><td>CTL H (–)</td><td>CTL pulse input/output</td></tr>
<tr><td>33</td><td>–</td><td>–</td><td>Vss (SRV)</td><td>GND</td></tr>
<tr><td>34</td><td>I</td><td>Pulse</td><td>CTL AMP I1</td><td>CTL amp gain switching input</td></tr>
<tr><td>35</td><td>I</td><td>Pulse</td><td>CTL AMP I2</td><td>CTL amp negative feedback input</td></tr>
<tr><td>36</td><td>I</td><td>Pulse</td><td>CTL AMP I3</td><td>CTL amp input</td></tr>
<tr><td>37</td><td>O</td><td>Pulse</td><td>CTL AMP (0)</td><td>CTL amp output</td></tr>
<tr><td>38</td><td>I</td><td>Pulse</td><td>DRUM FG</td><td>Drum FG input</td></tr>
<tr><td>39</td><td>I</td><td>Pulse</td><td>DRUM PG</td><td>Drum PG input</td></tr>
<tr><td>40</td><td>I</td><td>Pulse</td><td>CFG</td><td>CFG input signal</td></tr>
<tr><td>41</td><td>I</td><td>–</td><td>Vcc (SRV)</td><td>S5V power supply for SRV</td></tr>
</table>

Pin No.	I/O	Active Level	Abbreviation	Function
42	I	–	Vcc (OSD)	S5V power supply for OSD
43	I	–	CV IN	Video signal input (2 Vp-p, with sync tip clamp circuit)
44	I	–	Vref	Reference bias, clamp bias monitor pin
45	O	–	CV OUT	Composite video signal output (2 Vp-p)
46	I	–	CHAR Bias	For externally adjusting character luminance level
47	I	–	AFC LPF	An LPF for AFC is externally attached.
48	I	–	AFC OSC	Oscillator for AFC
49	I	–	GND (OSD)	Ground
50	I	Pulse	DOSC IN	LC or RC oscillator for generating dot clock
51	O	Pulse	DOSC OUT	LC or RC oscillator for generating dot clock
52	O	–	4fsc OUT	4fsc or 2fsc oscillator
53	I	–	4fsc IN	4fsc or 2fsc oscillator
54	I	Pulse	C. SYNC	C.SYNC input for video output
55	O	Hi	BLUE BACK	"H" during OSD blue background
56	O	Hi	HiFi REC	Hi-Fi audio recording signal. REC and V.DUB: "H". REC PAUSE and V.DUB PAUSE: "L".
57	I/O	Pulse	12C DATA (AV)	I2C communication data signal
58	O	Pulse	12C CLK (AV)	I2C communication clock signal
59	O	Lo	PB	Sets the video system to the playback mode. During playback: "L"
60	O	Hi	REVERSE	Capstan motor reverse control output ("H" for reverse drive)
61	O	Hi	A. REC	Linear audio recording signal. REC, A.DUB and A.DUB PAUSE: "H". REC PAUSE: "L"
62	O	Hi	CTL RESET	Adds reset pulse to CTL during REVERSE SLOW.
63	O	Hi/Lo	PAL/NTSC	Video switching. NTSC playback: "L", PAL playback: "H". The output is fixed at "L" for models without PAL or NTSC playback.
64	O	Pulse	IR OUT	IR output that controls cable box (satellite decoder). The output is fixed at "L" for models without SAT
65	O	Hi	LM2 (UNLOAD)	Loading motor control outputs.
66	O	Hi	LM1 (LOAD)	
67	O	Hi/Lo	LM CONT	Loading motor voltage control output
68	–	–	TEST	Ground
69	I	–	XCIN	For the connection of 32.768kHz crystal oscillator (tolerance: within ±5 ppm)
70	O	–	XCOUT	
71	I	–	GND	Ground
72	I	–	XIN	For the connection of 10MHz ceramic oscillator (tolerance: within ±0.50 ppm)
73	O	–	XOUT	
74	O	Hi	L. MUTE	Audio output system muting control. "H": Muting ON (used in common with FTZ muting)
75	I/O	Hi/Lo	CAPS Q. R	Capstan control signal. "H": Voltage control, "OPEN": Servo control, "L": Braking
76	I/O	Hi/Lo	DRUM Q. R	Cylinder control signal. Horizontal jitter correction.
77	O	Hi	POWER CONT	Switches S power supply on and off. "H": Power ON, "L": Power OFF (or "OPEN": When microprocessor is initialized)
78	O	Lo	SP	Tape speed control. PAL/NTSC SP mode: "L"
79	I	Hi/Lo	MESECAM DET	MESECAM signal detection input. When MESECAM signal detected: "H". Not connected and fixed at "L" for PAL models, not handling MESECAM signal.
80	O	Hi	REC	Video signal recording control. REC LED control signal. During REC, REC PAUSE, V.DUB, V.DUB PAUSE: "H".
81	O	Hi	MTS MUTE	Tuner audio muting signal. During playback, line input: "H". During MPX muting for channel switching: "H"

	Stop	Loading	Unloading	Brake
LM1 (LOAD)	L	H	L	H
LM2 (UNLOAD)	L	L	H	H

<table>
<tr><th>Pin No.</th><th>I/O</th><th>Active Level</th><th>Abbreviation</th><th>Function</th></tr>
<tr><td>82</td><td>I</td><td>Pulse</td><td>IR. IN</td><td>Remote control receiving signal</td></tr>
<tr><td>83</td><td>O</td><td>–</td><td>NC</td><td></td></tr>
<tr><td>84</td><td>I</td><td>Hi</td><td>CCD CE</td><td>CCD microprocessor chip enable</td></tr>
<tr><td>85</td><td>O</td><td>Hi</td><td>P. SAVE</td><td>Detects VPS/PDC programming status and switches S power on and off.
Power ON: "H", Power OFF: ""L", Standby with VPS/PDC programming: "H"</td></tr>
<tr><td>86</td><td>I</td><td>Lo</td><td>EST</td><td rowspan="2">End sensor inputs.
1. Used to detect whether or not a cassette is loaded into the US mechanism.
With cassette: ESS or EST is "H".
Without cassette: Both ESS and EST are "L"
2. Used to detect the start and end of tape.
Tape start: EST "L" and ESS "H". Tape end: EST "H" and ESS "L"</td></tr>
<tr><td>87</td><td>I</td><td>Lo</td><td>ESS</td></tr>
<tr><td>88</td><td>I</td><td>Pulse</td><td>T. REEL</td><td>Reel pulses for detecting rotation of take-up reel disk</td></tr>
<tr><td>89</td><td>I</td><td>Pulse</td><td>S. REEL</td><td>Reel pulses for detecting rotation of supply reel disk</td></tr>
<tr><td>90</td><td>I</td><td>Lo</td><td>CHECK</td><td>Signal to detect short-circuit in S5V, S9V, PS5V and PS9V</td></tr>
<tr><td>91</td><td>O</td><td>Hi/Mid/Lo</td><td>V CAP. CONT 2</td><td rowspan="2">Sets capstan motor voltage during playback, fast forward/rewind and slow.
<table>
<tr><th colspan="3">FF/REW</th></tr>
<tr><td>FF/REW</td><td>91, 94</td><td>V</td></tr>
<tr><td>During S.L acceleration</td><td>L L</td><td>13.5</td></tr>
<tr><td>Less than EPX1</td><td>L L</td><td>13.5</td></tr>
<tr><td>EPX1-SPX6</td><td>L H</td><td>9.5</td></tr>
<tr><td>More than SPX6</td><td>L L</td><td>13.5</td></tr>
<tr><td>Low-speed FF/REW</td><td>L L</td><td>13.5</td></tr>
</table>
* 13.5 V in modes other than above (pins 91 and 94 are "L")
<table>
<tr><th colspan="3">PB/REC/SR</th></tr>
<tr><td></td><td>91, 94</td><td>V</td></tr>
<tr><td>X1</td><td>H H</td><td>7.5</td></tr>
<tr><td>X3-X5</td><td>L H</td><td>9.5</td></tr>
<tr><td>X7</td><td>L L</td><td>13.5</td></tr>
</table>
<table>
<tr><th colspan="3">SLOW</th></tr>
<tr><td></td><td>91, 94</td><td>V</td></tr>
<tr><td>BRAKE</td><td>L H</td><td>9.5</td></tr>
<tr><td>SP ACCEL</td><td>L L</td><td>13.5</td></tr>
</table></td></tr>
<tr><td>94</td><td>O</td><td>Hi/Mid/Lo</td><td>V CAP. CONT</td></tr>
<tr><td>92</td><td>I/O</td><td>Pulse</td><td>12C DATA</td><td>I2C communication data signal</td></tr>
<tr><td>93</td><td>O</td><td>Pulse</td><td>12C CLOCK</td><td>I2C communication clock signal</td></tr>
<tr><td>95</td><td>O</td><td>Pulse</td><td>CCD CLOCK</td><td>Clock signal for CCD communications</td></tr>
<tr><td>96</td><td>I</td><td>Pulse</td><td>CCD DATA IN</td><td>CCD data input</td></tr>
<tr><td>97</td><td>O</td><td>Pulse</td><td>CCD DATA OUT</td><td>CCD data output</td></tr>
<tr><td>98</td><td>O</td><td>Pulse</td><td>LCD CLOCK</td><td>Clock for serial data output to LCD</td></tr>
<tr><td>99</td><td>O</td><td>Hi</td><td>LCD CE</td><td>Data load signal to LCD</td></tr>
<tr><td>100</td><td>O</td><td>Pulse</td><td>CCD DATA</td><td>Serial data to LCD</td></tr>
</table>

3. CCD μP (IC4301)

Pin No.	I/O	Active Level	Abbreviation	Function
1	I	Pulse	H. SYNC	H.SYNC inversion input
2	I	Pulse	V SYNC	V.SYNC inversion input
3	O	Hi/Lo	MESECAM DET	OSD chroma addition, Closed Caption through mode. Expansion output of MAIN μP MESECAM DET input. MESECAM: "H"
4	O	Hi/Lo	MAP LED	Lights when NAVI data retrieval and registration are completed: "H" During retrieval: Blinks
5	O	Pulse	OSD CS	OSD IC chip selection
6	O	Pulse	OSD/CM DATA OUT	Data output to OSD IC and CM microprocessor
7	O	Pulse	OSD/CM CLOCK	Clock used to transfer data to OSD IC and CM microprocessor
8	I	Pulse	CM DATA IN	Data input from CM microprocessor
9	I	Hi/Lo	CM EVENT	CM EVENT input
10	I	Hi/Lo	P STOP	Power failure detection input
11	O	–	NC	
12	O	Hi/Lo	CM LED	CM LED output (unused)
13	O	Hi/Lo	EE MONI	EE monitor: "H"
14	I	–	AVCC	Power supply of analog circuits
15	O	–	HLF	For the connection of filter
16	I	–	VHOLD	For the connection of capacitor
17	I	–	CVIN	Video signal input
18	I	–	CNVSS	Ground
19	I	–	XIN	8MHz oscillator input/output
20	O	–	XOUT	
21	–	–	GND	Ground
22	A5V	–	VCC	Power supply (A5V)
23	O	Hi/Lo	L3/L3	Video switching output for EE monitor. L1/L2/TUN: "L", L3: "H"
24	O	–	NC	
25	I	Lo	RESET	Reset input. RESET: "L"
26	O	Hi/Lo	REC LED	Lights during REC, REC PAUSE, TIMER REC, IRT "H" Off during V.DUB, V.DUB PAUSE, A.DUB, A.DUB PAUSE. "L"
27	O	Hi/Lo	TIM LED	Lights during timer standby: "H"
28	O	Hi/Lo	PB	VP Plus/NAVI DATA switching output. During PLAY (VP Plus through): "H"
29	O	Hi/Lo	BLUE BACK	VP Plus/NAVI DATA switching output: Expansion output of MAIN μP BLUE BACK output. During no signal (VP Plus through): "H"
30	I	Pulse	CCD. ENABLE	CCD microprocessor enable input from MAIN μP
31	O	–	NC	
32	O	Pulse	I^2 CCLK	Communications with EEPROM
33	O	Hi/Lo	X'TAL CHANGE	
34	I/O	Pulse	I^2C DATA	Communications with EEPROM
35	O	Pulse	R.N. BLANK	Blank output for NAVI data
36	I	Pulse	DATA IN (M –> C)	Data input from MAIN μP
37	O	Pulse	DATA OUT (C –> M)	Data output to MAIN μP
38	I	Pulse	CLOCK IN	Clock for communications with MAIN μP
39	O	Pulse	C. BLANK	Blank output for Closed Caption
40	O	Pulse	C. CO	Closed Caption output
41	O	–	NC	
42	O	Pulse	R.N. CO	NAVI data output

HITACHI

HITACHI LTD. TOKYO JAPAN
International Sales Division,
THE HITACHI ATAGO BLDG.
No. 15 -12 Nishi-Shinbashi, 2 - Chome,
Minato-Ku, Tokyo 105, Japan
Tel. Tokyo 3 32581111

HITACHI SALES EUROPA GmbH
Am Seestern 18,
40547 Düsseldorf,
Germany
Tel. 0211 5291 50

HITACHI SALES (HELLAS) S.A.
91, Falirou Street, 117-41 Athens,
Greece
Tel. 92 42-620-4

HITACHI HOME ELECTRONICS (EUROPE) Ltd.
Hitachi House, Station Road, Hayes,
Middlesex UB3 4DR,
England
Tel. 0181 849 2000

HITACHI SALES IBERICA, S.A.
Gran Via Carlos Tercero.101,1 -1
Barcelona 08028
Tel. 3- 330.86.52

HITACHI FRANCE (RADIO-T.V.-ELECTRO-MENAGER) S.A.
4, allée des Sorbiers,
Parc d'active de Chêne,
69671 BRON Cedex,
France
Tel. 72 14-29-70

HITACHI HOME ELECTRONICS NORDIC
Domnarvsgatan 29 Lunda, Box 62
S-163 91 Spanga,
Sweden
Tel. 08 621 8250

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